





Insertion flowmeter or batch controller with paddle wheel and flow transmitter or remote batch controller

- Up to PN 10, measurement tube size DN 06 to DN 400
- Display for showing the flow rate and volume with two totalisers, or dosing
- Automatic calibration via teach-in
- Inputs (with batch controller) and all outputs can be checked without the need for actual flow
- Overall total and daily total for batch quantity and number of batches, volume or mass totalisers displayed (with batch controller)

Device Type 8025 is specially designed for use in neutral or mildly aggressive, particle-free liquids. The device is supplied as a flowmeter or batch controller, in a

Bürkert's proprietary fitting system permits simple installation of the compact

The compact flowmeter is available with a standard signal output or without output



Product variants described in the data sheet may differ from the product presentation and description.

compact variant with paddle wheel sensor or in a remote variant.

Can be combined with



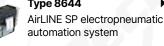
Type 8611 eCONTROL - Universal controller

Type 8619 multiCELL - multi-channel/ multi-function transmitter/ controller

Type 8802



Type 8644



Remote devices (flow transmitters or batch controllers) intended for wall mounting **ELEMENT** continuous control or fitting inside a control cabinet must either be connected to a Bürkert flowmeter valve systems - overview Type 8020, Type 8031, Type 8041 or Type SE30+S077, or to a flowmeter with open collector output, reed relay output, TTL, CMOS or solenoid. ۲

(battery-operated display/totaliser).

device into pipelines from DN 20 to DN 400.

Type description

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1. **General technical data**

1.1. About the device

The device Type 8025 is available in a compact variant as a flowmeter or as a batch controller or in a remote variant (wall-mounted or panel-mounted) as a flow transmitter or as a batch controller.



Furthermore, the compact flowmeter is available either as a measuring device with standard output signal or as a battery powered indicator/ totalizer.

In addition, the flow transmitter is available in two variants: a Universal variant and a variant for Bürkert "Low Power" flowmeters.

1.2. Flowmeter or compact batch controller

General data

The following data are valid for both the flowmeter and the batch controller.

Product properties

Material

Make sure the device materials are compatible with the fluid you are using. Further information can be found in chapter "4.1. Bürkert resistApp" on page 18.

Further information on the materials can be found in chapter "4.2. Material specifications" on page 18.

Non-wetted parts	
Lid	PC
Front panel film	Polyester
Cover	PC
Housing	PC
Screw	Stainless steel
Union nut	PC
Seal	NBR
Female cable plug/male fixed	Body, contact holder and cable gland in PA
plug	Cable gland seal and flat seal in NBR
Cable gland	PA
Wetted parts	
Sensor armature	PVDF
Axis and bearing	Ceramics (Al ₂ O ₃)
Paddle wheel	PVDF
Seal	FKM standard (EPDM included, but not mounted)
Display	15 × 60 mm, 8-digit LCD, alphanumeric, 15 segments, 9 mm high
Compatibility	Any pipe from DN 20 ¹¹ DN 400 which is fitted with Bürkert Type S020 Insertion fitting. For the selection of the nominal diameter of the fittings, see data sheet Type S020 ▶.
Pipe diameter	DN 20 ¹⁾ DN 400
Dimensions	Further information can be found in chapter "5. Dimensions" on page 20.
Measuring principle	Paddle wheel
Measuring range	• Flow rate: 0.575000 I/min
	Flow velocity: 0.310 m/s



Performance data	
Measurement deviation	 Teach-in: ±1% of the measured value²⁾ at teach-in flow rate value
	 Standard K factor: ± 2.5 % of the measured value¹
Linearity	±0.5% of full scale ²⁾
Repeatability	±0.4% of the measured value ²⁾
Electrical data	
Power source (not supplied)	Limited power source according to UL/EN 62368-1 standards or limited energy circuit according to UL/EN 61010-1 paragraph 9.4
DC reverse polarity protection	Yes
Overvoltage protection	Yes
Voltage supply cable	 Cable with maximum operating temperature greater than 80 °C (176 °F) (90 °C (194 °F) for UL-Rec- ognized variant)
	Max. 50 m length, shielded
Medium data	
Fluid temperature	With fitting Type S020 in: • PVC: 0+ 50 °C (+ 32+ 122 °F)
	• PP: 0+ 80 °C (+ 32+ 176 °F)
	 PVDF, stainless steel or brass: -15+ 80 °C (+ 5+ 176 °F) (up to + 100 °C (212 °F) for flowmeter with batteries)
	See data sheet Type S020 > for more information.
Fluid pressure	Max. PN 10 See data sheet Type S020 ▶ for more information.
Viscosity	Max. 300 cSt
Rate of solid particles	Max. 1%
Maximum particle size	0.5 mm
Product connections	
Process connection	G 2" for use with Type S020 Insertion fitting See data sheet Type S020 ▶ for more information.
Approvals and conformities	
Directives	
CE directive	Further information on the CE directive can be found in chapter "3.3. Standards" on page 17.
Pressure equipment directive	Complying with article 4, paragraph 1 of 2014/68/EU directive Further information on the pressure equipment directive can be found in chapter " 3.4. Pressure Equipment Directive (PED)" on page 17.
North America (USA/Canada)	UL Recognized for the USA and Canada
Environment and installation	
Relative air humidity	< 80%, without condensation
Height above sea level	Max. 2000 m
Operating condition	Continuous
Equipment mobility	Fixed
Application range	Indoor and outdoor
, ppilottor rungo	Protect the device against electromagnetic interference, ultraviolet rays and, when installed outdoors, against the effects of climatic conditions.
Degree of protection ^{3.)} according to IEC/EN 60529	IP65 with the following conditions met: • device wired
	cover and lid screwed tight
	female cable plug or glands mounted and tightened
	with blind plug on unused cable glands
Installation category	Category I according to UL/EN 61010-1
Pollution degree	Degree 2 according to UL/EN 61010-1

1.) Restricted to some Insertion fitting process connections

2.) Under reference conditions i.e. measuring medium = water, ambient and water temperature = + 20 °C (+ 68 °F), observing the minimum the minimum inlet and outlet sections and the appropriate inner diameter of the pipe.

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3.) Not evaluated by UL



Flowmeter

Note:

If the device is mounted in a humid environment or outside, then the maximum voltage allowed is **35 V DC** instead of 36 V DC.

Performance data	
420 mA output uncertainty	±1% of current range
Electrical data	
Operating voltage (V+)	Measuring device with standard output signal
	 1236 V DC ± 10 %, filtered and regulated Connection to main supply: permanent, through external SELV (Safety Extra Low Voltage) and LPS (Limited Power Source) power supply
	115/230 V AC, 50/60 Hz Voltage supply available inside the device:
	 supplied voltage: 27 V DC regulated
	 maximum current: 125 mA
	 integrated protection: 125 mA time delay fuse
	Battery powered indicator/totalizer
	 4 × 1.5 V DC non-rechargeable alkaline AA batteries, lifetime 4 years at 20 °C (68 °F)
Current consumption	1236 V DC powered measuring device with standard output signal, with sensor and without pulse output consumption
	 With relays: ≤ 70 mA
	 Without relay: ≤ 25 mA
Power consumption	115/230 V AC powered measuring device: 3 VA
Output	Measuring device with standard output signal Transistor (pulse): potential free NPN or PNP (wiring dependant)
	 function: pulse output, adjustable pulse value
	– 0400 Hz
	- 536 V DC, 100 mA, voltage drop at 100 mA: 2.5 V DC
	 duty cycle (pulse duration/period): 0.5
	- galvanic insulation and protected against overvoltage, polarity reversals and short circuit
	• Relay:
	 2 relays, normally open, hysteresis, adjustable thresholds
	 non UL recognized device: 230 V AC/3 A or 40 V DC/3 A (resistive load)
	 UL recognized device: 30 V AC/42 V_{peak}/3 A or 60 V DC/1 A
	Current:
	 420 mA (3-wire with relays, 2-wire without relay)
	 sourcing or sinking (wiring dependant)
	 max. loop impedance: 900 Ω at 30 V DC, 600 Ω at 24 V DC, 50 Ω at 12 V DC, 800 Ω with a 115/230 V AC voltage supply
	 response time (1090 %) for the measured value: 6 s (default))
	Battery powered indicator/totalizer
	Without output



Voltage supply cable	Measuring device with standard output signal
	External diameter (cable):
	 58 mm (with cable plug)
	 612 mm (1 cable per cable gland) or 35 mm when using a multi-way seal (2 cables per cable gland)
	Cross section of wires:
	 0.251.5 mm² (with cable plug)
	 0.75 mm² (with cable gland)
	Cross section of the local ground wire: max. 0.75 mm ²
	Battery powered indicator/totalizer
	None
Product connections	
Electrical connection	 Variant 1236 V DC: cable plug or cable glands M20 × 1.5
	Variant with batteries: None
Environment and installation	
Ambient temperature	Operation and storage:
	 variant 1236 V DC: -10+ 60 °C (+ 5+ 140 °F)
	 variant 115/230 V AC: -10+ 50 °C (+ 5+ 122 °F)

Compact batch controller

Note:

If the device is mounted in a humid environment or outside, then the maximum voltage allowed is 35 V DC instead of 36 V DC.

Electrical data	
Operating voltage (V+)	 1236 V DC, max tolerance: - 5 % or + 10 % at 12 V DC, ± 10 % at 36 V DC, filtered and regulated Connection to main supply: permanent, through external SELV (Safety Extra Low Voltage) and LPS (Limited Power Source) power supply
	 115/230 V AC, 50/60 Hz Voltage supply available inside the device:
	 supplied voltage: 27 V DC regulated
	 maximum current: 125 mA
	 integrated protection: 125 mA time delay fuse
Current consumption	With sensor, without consumption of digital input and pulse outputWith relays:
	- ≤100 mA (at 12 V DC)
	- ≤ 50 mA (at 36 V DC)
	– ≤55 mA (115/230 V AC)
	Without relay:
	– ≤70 mA (at 12 V DC)
	- ≤ 35 mA (at 36 V DC)
	– ≤40 mA (115/230 V AC)
Power consumption	115/230 V AC powered measuring device: 3 VA
Input	• DI (1 to 4)
	 Switching threshold V_{on}: 536 V DC
	 Switching threshold V_{off} max.: 2 V DC
	Min. pulse duration: 100 ms
	 Input impedance: 9.4 kΩ
	 Galvanic insulation, protected against polarity reversals and voltage spike



Output	Transistors (digital outputs DO1 and DO4):
	– potential-free
	 NPN or PNP (wiring dependant)
	 function: pulse output (by default for DO1), batch state (by default for DO4), configurable and par- ametrizable
	– 0300 Hz
	 536 V DC, 100 mA max., voltage drop at 100 mA: 2.7 V DC
	 duty cycle (pulse duration/period): > 0.45
	 galvanic insulation, protected against overvoltage, polarity reversals and short-circuits
	Relays (digital outputs DO2 and DO3):
	 2 relays, normally open, parametrizable (by default: DO2 always configured to control the valve, parametrized of 100 % of the batch quantity and DO3 configured as alarm)
	 non UL recognized device: 230 V AC/3 A or 40 V DC/3 A (resistive load)
	 UL recognized device: 30 V AC/42 V_{peak}/3 A or 60 V DC/1 A
	 max. cutting power of 750 VA (resistive load)
Voltage supply cable	External diameter (cable):
	 612 mm (1 cable per cable gland) or
	 4 mm when using a multi-way seal (2 cables per cable gland)
	Cross section of wires: 0.75 mm ²
Product connections	
Electrical connection	Cable glands M20 × 1.5
Environment and installation	
Ambient temperature	Operation and storage:
	 variant 1236 V DC: - 10+ 60 °C (+ 5+ 140 °F)
	 variant 115/230 V AC: - 10+ 50 °C (+ 5+ 122 °F)



1.3. Flow transmitter or remote batch controller

General data

The following data are valid for the universal flow transmitter, for the flow transmitter for "Low Power" flowmeters as well as for the remote batch controller.

Product properties	
Material	
Make sure the device materials a	re compatible with the fluid you are using.
Further information can be found	in chapter "4.1. Bürkert resistApp" on page 18.
Further information on the mater	ials can be found in chapter "4.2. Material specifications" on page 18.
Non-wetted parts	ais can be found in chapter 4.2. Material specifications on page 10.
Front panel film	Polyester
Cover	ABS (wall-mounted variant)
Housing	PC (panel-mounted variant)
liedenig	ABS (wall-mounted variant)
Screw	Stainless steel
Seal	NBR
Cable gland	PA (wall-mounted variant)
Cable clamp	PA (panel-mounted variant)
Display	15 × 60 mm, 8-digit LCD, alphanumeric,15 segments, 9 mm high
Dimensions	Further information can be found in chapter "5. Dimensions" on page 20.
Electrical data	
Power source (not supplied)	Limited power source according to UL/EN 62368-1 standards or limited energy circuit according to UL EN 61010-1 paragraph 9.4
DC reverse polarity protection	Yes
Overvoltage protection	Yes
Voltage supply cable	• Cable with maximum operating temperature greater than 80 °C (90 °C for UL Recognized variant)
	Max. 50 m length
	Cross section of wires: 0.21.5 mm ²
Product connections	
Electrical connection	Panel-mounted variant: terminals
	Wall-mounted variant: terminals via gland M16 × 1.5
Approvals and conformities	
Directives	
CE directive	Further information on the CE directive can be found in chapter "3.3. Standards" on page 17.
North America (USA/Canada)	UL Recognized for US and Canada
Environment and installation	
Ambient temperature	Operation and storage: - 10+ 60 °C (+ 14+ 140 °F)
Relative air humidity	≤ 80 %, without condensation
Height above sea level	Max. 2000 m
Operating condition	Continuous
Equipment mobility	Fixed
Application range	Indoor and outdoor Protect the device against electromagnetic interference, ultraviolet rays and, when installed outdoors, against the effects of climatic conditions.
Degree of protection ^{1.)} according	Panel-mounted variant:
to EN 60529	 front side: IP65 installation completed and closed cabinet
	 rear side: IP20 inside the closed cabinet
	Wall-mounted variant:
	 IP65 with the following conditions met: dovice wired
	- device wired
	 cover screwed tight
	 female cable plug or glands mounted and tightened
	 with blind plug on unused cable glands



Universal flow transmitter

Note:

If the device is mounted in a humid environment or outside, then the maximum voltage allowed is 35 V DC instead of 36 V DC.

Product properties	
Compatibility	Bürkert flowmeter with frequency output (Types 8020, 8030, 8030HT, 8041, 8031, SE30+S077, 8071, 8077) or other sensors with compatible electrical data
Performance data	
420 mA output uncertainty	±1% of current range
Electrical data	
Operating voltage (V+)	Panel-mounted variant:
	 1236 V DC, max tolerance: -5% or +10% at 12 V DC, ±10% at 36 V DC, filtered and regulated Connection to main supply: permanent, through external SELV (Safety Extra Low Voltage) and LPS (Limited Power Source) power supply
	Wall-mounted variant:
	 1236 V DC, max tolerance: - 5% or + 10% at 12 V DC, ± 10% at 36 V DC, filtered and regulated Connection to main supply: permanent, through external SELV (Safety Extra Low Voltage) and LPS (Limited Power Source) power supply
	 115/230 V AC, 50/60 Hz Voltage supply available inside the device:
	 supplied voltage: 27 V DC regulated
	 maximum current: 250 mA
	 integrated protection: 250 mA time delay fuse
Current consumption	Without sensor and without consumption of 420 mA output of the flowmeter
	With relays:
	- ≤ 70 mA (at 12 V DC)
	- ≤ 45 mA (at 36 V DC)
	- ≤ 50 mA (115/230 V AC, wall-mounted variant)
	Without relay:
	- ≤ 50 mA (at 12 V DC)
	- ≤ 30 mA (at 36 V DC)
	- ≤ 35 mA (115/230 V AC, wall-mounted variant)
Power consumption	115/230 V AC powered measuring device: 6 VA
Device input (from sensor)	Frequency range: 0.6 Hz2.2 kHz, can be adjusted
	Voltage: max. 36 V DC
	Type of the signal:
	 pulse: open collector NPN (with 470 Ω or 2.2 kΩ resistance) or PNP, TTL, CMOS (with 39 kΩ resistance)
	- sine-wave, coil (with 39 k Ω resistance and with minimum sensitivity of 50 mV peak to peak)
Device output (to sensor)	Voltage supply with a powered 1236 V DC transmitter:
	- 10.534.5 V DC [= (V+) - 1.5 V DC], 140 mA max.
	- 023.5 V DC [= (V+) - 12.5 V DC], 80 mA max.
	- 5 V DC, 30 mA max.
	 Voltage supply with a powered 115/230 V AC transmitter:
	- + 27 V DC, 80 mA max.
	- +14.5 V DC [= (V+) -12.5 V DC] 80 mA max.
	- 5 V DC, 30 mA max.



Output	Transistor (digital output DO1):
	– potential free
	 NPN or PNP (wiring dependant)
	 function: pulse output, adjustable pulse value
	– 02200 Hz
	 536 V DC, 100 mA max., voltage drop at 100 mA: 2.7 V DC
	 duty cycle (pulse duration/period):
	- > 0.45 if 0.6 < frequency < 300 Hz
	- >0.4 if 300 < frequency <1500 Hz
	- < 0.4 if 1500 < frequency < 2200 Hz
	 galvanic insulation, protected against overvoltage, polarity reversals and short-circuit
	Relays (digital outputs DO2 and DO3):
	 2 relays, normally open, hysteresis, adjustable thresholds
	 non UL recognized device: 230 V AC/3 A or 40 V DC/3 A (resistive load)
	 UL recognized device: 30 V AC/42 V_{neak}/3 A or 60 V DC/1 A
	 max. cutting power of 750 VA (resistive load)
	– life span of min. 100 000 cycles
	Current (analogue output AO1):
	– 420 mA (3-wire)
	 sourcing or sinking (wiring dependant)
	 22 mA to indicate a fault (can be activated)
	 max. loop impedance: 1300 Ω at 36 V DC, 1000 Ω at 30 V DC, 750 Ω at 24 V DC, 300 Ω at 15 V DC, 200 Ω at 12 V DC, 900 Ω with a 115/230 V AC voltage supply
Voltage supply cable	Wall-mounted variant:
-	 external diameter (cable): 48 mm (for the cable glands)



Flow transmitter for "Low Power" flowmeters

Note:

If the device is mounted in a humid environment or outside, then the maximum voltage allowed is 35 V DC instead of 36 V DC.

Product properties	
Compatibility	Bürkert flowmeter with frequency output (Types 8020, 8030, SE30+S077) in "Low Power" pulse signal variant
Performance data	
420 mA output uncertainty	±1% of current range
Electrical data	
Operating voltage (V+)	Panel-mounted variant:
	 1236 V DC ± 10 %, filtered and regulated Connection to main supply: permanent, through external SELV (Safety Extra Low Voltage) and LP (Limited Power Source) power supply
	Wall-mounted variant:
	 1236 V DC ± 10 %, filtered and regulated Connection to main supply: permanent, through external SELV (Safety Extra Low Voltage) and LP (Limited Power Source) power supply
	 115/230 V AC, 50/60 Hz Voltage supply available inside the device:
	 supplied voltage: 27 V DC regulated
	 maximum current: 250 mA
	 integrated protection: 250 mA time delay fuse
Current consumption	With sensor and without pulse output consumption With relays: ≤ 70 mA
	• Without relay: ≤ 25 mA
Power consumption	115/230 V AC powered measuring device: 6 VA
Device input (from sensor)	Frequency range: 2.5400 Hz
	Pulse signal (Hall): "Low Power", NPN Open Collector
Device output (to sensor)	Voltage supply 1034 V DC [= (V+) - 2 V DC], 1 mA max.
Output	Transistor (pulse):
	 potential free
	 NPN or PNP (wiring dependant)
	 function: pulse output, adjustable pulse value
	– 0400 Hz
	 536 V DC, 100 mA, voltage drop at 100 mA: 2.5 V DC
	 duty cycle (pulse duration/period): 0.5
	- galvanic insulation and protected against overvoltage, polarity reversals and short circuit
	Relay:
	- 2 relays, normally open, hysteresis, adjustable thresholds
	- non UL recognized device: 230 V AC/3 A or 40 V DC/3 A (resistive load)
	 UL recognized device: 30 V AC/42 V_{neak}/3 A or 60 V DC/1 A
	Current:
	- 420 mA (3-wire with relays, 2-wire without relay)
	 sourcing or sinking (wiring dependant)
	 max. loop impedance: 900 Ω at 30 V DC, 600 Ω at 24 V DC, 50 Ω at 12 V DC, 800 Ω with a 115/230 V AC voltage supply
	 response time (1090%) for the measured value: 6 s (default)
Voltage supply cable	Wall-mounted variant:
	 external diameter (cable): 48 mm (for the cable glands)



Remote batch controller

Note:

If the device is mounted in a humid environment or outside, then the maximum voltage allowed is 35 V DC instead of 36 V DC.

Product properties			
Compatibility	Bürkert flow sensor with frequency output (Types 8020, 8030, 8030HT, 8041, 8031, 8070, 8071, 8077) or other sensors with compatible electrical data		
Electrical data			
Operating voltage (V+)	 1236 V DC, max tolerance: -5% or +10% at 12 V DC, ±10% at 36 V DC, filtered and regulated Connection to main supply: permanent, through external SELV (Safety Extra Low Voltage) and LPS (Limited Power Source) power supply 		
	115/230 V AC, 50/60 Hz Voltage supply available inside the device:		
	 supplied voltage: 27 V DC regulated 		
	 maximum current: 250 mA 		
	 integrated protection: 250 mA time delay fuse 		
Current consumption	With sensor and without consumption of 420 mA output of the flowmeterWith relays:		
	– ≤70 mA (at 12 V DC)		
	– ≤ 45 mA (at 36 V DC)		
	– ≤ 50 mA (115/230 V AC, wall-mounted variant)		
	Without relay:		
	– ≤ 50 mA (at 12 V DC)		
	- ≤ 30 mA (at 36 V DC)		
	- ≤ 35 mA (115/230 V AC, wall-mounted variant)		
Power consumption	115/230 V AC powered measuring device: 6 VA		
Device input (from sensor)	Frequency range: 0.6 Hz2.2 kHz		
	Voltage: Max. 36 V DC		
	• Type of the signal:		
	 pulse: open collector NPN (with 470 Ω or 2.2 kΩ resistance) or PNP, TTL, CMOS (with 39 kΩ resistance) 		
	– sine-wave: coil (with 39 kΩ resistance)		
Device output (to sensor)	Voltage supply with a powered 1236 V DC transmitter:		
	- 10.534.5 V DC [= (V+) - 1.5 V DC], 140 mA max.		
	- 023.5 V DC [= (V+) - 12.5 V DC], 80 mA max.		
	– 5 V DC, 30 mA max.		
	Voltage supply with a powered 115/230 V AC transmitter:		
	- + 27 V DC, 80 mA max.		
	- +14.5 V DC [= (V+) -12.5 V DC] 80 mA max.		
	– 5 V DC, 30 mA max.		
nput	• DI (1 to 4)		
	 Switching threshold V_{or}: 536 V DC 		
	Switching threshold V _{off} max.: 2 V DC		
	Min. pulse duration: 100 ms		
	 Input impedance: 9.4 kΩ 		
	• Galvanic insulation, protected against polarity reversals and voltage spike		



Output	Transistors (digital outputs DO1 and DO4):
	 potential free
	 NPN or PNP (wiring dependent)
	 function: pulse output (by default for DO1), state (by default for DO4), configurable and para- metrizable
	– 02200 Hz,
	 536 V DC, 100 mA max., voltage drop at 100 mA: 2.7 V DC
	 duty cycle (pulse duration/period):
	- > 0.45 if 0.6 < frequency < 300 Hz
	- > 0.4 if 300 < frequency < 1500 Hz
	- < 0.4 if 1500 < frequency < 2200 Hz
	 galvanic insulation, protected against overvoltage, polarity reversals and short-circuits
	Relays (digital outputs DO2 and DO3):
	 2 relays, normally open, parametrizable (by default: DO2 always configured to control the valve, parametrised of 100 % of the batch quantity and DO3 configured as alarm)
	 non UL recognized device: 230 V AC/3 A or 40 V DC/3 A (resistive load)
	 UL recognized device: 30 V AC/42 V_{peak}/3 A or 60 V DC/1 A
	 max. cutting power of 750 VA (resistive load)
Voltage supply cable	Wall-mounted variant:
	 external diameter (cable): 58 mm (for the cable glands)

2. Product variants

2.1. Flowmeter

The compact variant is available in two variants:

Insertion flowmeter with standard output signal (4...20 mA, frequency)

Insertion flowmeter as battery powered indicator/totalizer



Flowmeter with standard output signal

The device operates on a 2- or 3-wire system and needs a 12...36 V DC or a 115/230 V AC power supply. The device is equipped with:

- an analogue output (4...20 mA current output)
- a digital output (pulse output) and
- two totalizers.

Some variants are also fitted with two fully configurable relay outputs.

The device allows:

- through the digital or relay outputs
 - to switch a solenoid valve
 - to activate an alarm
 - to generate a flow rate proportional frequency
- through the analogue output to establish a control loop.



Flowmeter as battery powered indicator/totalizer

The device has no output and displays the instantaneous value as well as the amount of liquid that has flowed through.



2.2. Compact batch controller



- The device needs a voltage supply of 12...36 V DC or 115/230 V AC. The device is equipped with:
- four digital inputs (DI1 to DI4),
- two transistor outputs (DO1 configured as a pulse output and DO4 configured as state output, by default),
- two relay outputs (DO2 always configured to control the valve and by default parametrise of 100 % of the batch quantity and DO3 configured as alarm output by default),
- two volume or mass totalizers and two totalizers for the number of batches performed.

The second relay output can be used to activate another valve, to initiate alarms or to generate warnings.

When mounted in a pipe in series with one or two valves, the batch controller makes it possible to carry out a dosing of one or several quantities of liquids. The unit controls the opening of the valves and measures the quantity of the fluid which flows. The unit also closes the valves when the pre-set quantity has been delivered.

2.3. Universal flow transmitter

The transmitter is available in wall-mounted and panel variants.

The transmitter can be associated with Bürkert flowmeter (e.g. Type 8020, 8030, SE30+S077). See chapter **"10.3.** Combination of the remote device" on page 34 for more information. Another flow sensor emitting a frequency signal (pulse signal) can also be connected.

The transmitter operates on a 3-wire system and needs a 12...36 V DC or a 115/230 V AC power supply. The transmitter is equipped with:

- an analogue output (4...20 mA current output, called AO1)
- a digital output (configured as a pulse output by default, called DO1)
- two totalizers.

Some variants are also fitted with two fully configurable relay outputs (called DO2 and DO3).

When connected to a flowmeter, the transmitter allows:

- through the digital or relay outputs
 - to switch a solenoid valve
 - to activate an alarm
 - to generate a flow rate proportional frequency
- through the analogue output to establish a control loop.

2.4. Flow transmitter for "Low Power" flowmeters

The transmitter is available in wall-mounted and panel variants.



The transmitter variant can only be associated with Bürkert flowmeter (e.g. Type 8020, 8030, SE30+S077) with sinus or pulse output signal **in a "Low Power" variant**. See chapter **"10.3. Combination of the remote device" on page 34** for more information.

The transmitter operates on a 2- or 3-wire system and needs a 12...36 V DC or a 115/230 V AC power supply. The device is equipped with:

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- an analogue output (4...20 mA current output)
- a digital output (pulse output)
- two totalizers.

Some variants are also fitted with two fully configurable relay outputs.

When connected to a flowmeter, the transmitter allows:

- through the digital or relay outputs
 - to switch a solenoid valve
 - to activate an alarm
 - to generate a flow rate proportional frequency
- through the analogue output to establish a control loop.



2.5. Remote batch controller



The device is available in wall-mounted and panel variants.

The device can be associated with Bürkert flowmeters (e.g. Type 8020, 8030, SE30+S077). See chapter **"10.3. Combination of the remote device" on page 34** for more information. Another flow sensor emitting a frequency signal (pulse signal) can also be connected.

The device needs a voltage supply of 12...36 V DC or 115/230 V AC. The device is equipped with:

- four digital inputs (DI1 to DI4),
- two transistor outputs (DO1 configured as a pulse output and DO4 configured as state output, by default),
- two relay outputs (DO2 always configured to control the valve and by default parametrise of 100 % of the batch quantity and DO3 configured as alarm output by default),
- two volume or mass totalizers and two totalizers for the number of batches performed.

The second relay output can be used to activate another valve, to initiate alarms or to generate warnings.

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When the batch controller is connected to a flowmeter in series with one or two valves, dosing of one or several quantities of liquids can be carried out. The device controls the opening of the valves and measures the quantity of the fluid which flows. The device also closes the valves when the pre-set quantity has been delivered.



3. Approvals and conformities

3.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

3.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

3.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

3.4. Pressure Equipment Directive (PED)

The device conforms to Article 4, Paragraph 1 of the Pressure Equipment Directive 2014/68/EU under the following conditions:

Device used on a pipe

Note:

DTS 1000011079 EN Version: AG Status: RL (released | freigegeben | valide) printed: 13.05.2025

- The data in the table is independent of the chemical compatibility of the material and the fluid.
- PS = maximum admissible pressure, DN = nominal diameter of the pipe

Type of fluid	Conditions
Fluid group 1, Article 4, Paragraph 1.c.i	DN ≤ 25
Fluid group 2, Article 4, Paragraph 1.c.i	DN ≤ 32 or PS*DN ≤ 1000
Fluid group 1, Article 4, Paragraph 1.c.ii	DN ≤ 25 or PS*DN ≤ 2000
Fluid group 2, Article 4, Paragraph 1.c.ii	$DN \le 200 \text{ or } PS \le 10 \text{ or } PS*DN \le 5000$

3.5. North America (USA/Canada)

Approval	Description
c FL [®] us	 Optional: UL Recognized for the USA and Canada The products are UL Recognized for the USA and Canada according to: UL 61010-1 (ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE – Part 1: General Requirements)
	• CAN/CSA-C22.2 No. 61010-1



4. Materials

4.1. Bürkert resistApp



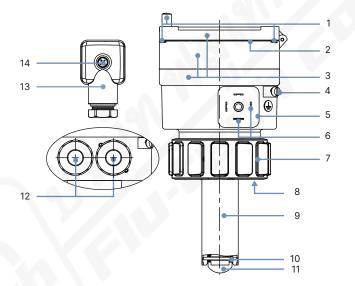
Bürkert resistApp - Chemical resistance chart

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

Start chemical resistance check

4.2. Material specifications

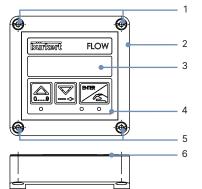
Flowmeter or compact batch controller



No.	Element	Material	
1	Screws	Stainless steel	
2	Front panel foil	Polyester	
3	Housing, cover, lid	PC	
4	Screw	Stainless steel	
5	Male fixed plug (DIN EN 175301-803)	PA	
6	Electrical contact	Sn	
7	Nut	PC	
8	Seal	FKM (EPDM included, but not mounted)	
9	Sensor armature	PVDF	
10	Axis and bearing	Ceramics (Al ₂ O ₃)	
11	Paddle wheel	PVDF	
12	M20 × 1.5 cable gland	PA	
13	Female cable plug (DIN EN 175301-803)	Body, contact holder and cable gland in PA	
		Cable gland seal and flat seal in NBR	
14	Screw	Stainless steel	

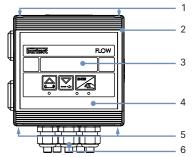


Flow transmitter or remote batch controller, panel variant



No.	Element	Material	
1	Screws	Stainless steel	
2	Housing	PC	
3	Window	PPMA	
4	Front panel foil	Polyester	
5	Screws	Stainless steel	
6	Seal	NBR	
-	Cable clip (at the back of the housing)	PA	

Flow transmitter or remote batch controller, wall-mounted variant



No.	Element	Material
1	Screws (under the cover plate)	Stainless steel
2	Housing and cover	ABS
3 Window		PPMA
4 Front panel foil		Polyester
5 Screws (under the cover plate)		Stainless steel
6 Cable glands		PA
-	Seal (between housing and cover)	NBR

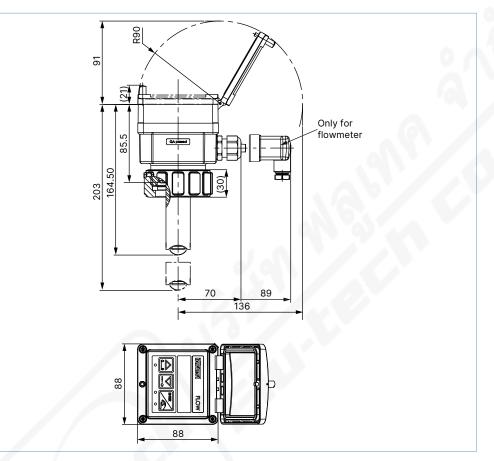


5. Dimensions

5.1. Flowmeter or compact batch controller

Note:

- Dimensions in mm, unless otherwise stated
- The length of the flow probe depends on the used Insertion fitting Type S020 and its nominal diameter, see **data sheet Type S020** ▶ for more information.

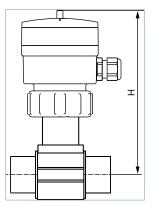




5.2. Flowmeter or compact batch controller installed in an Insertion fitting Type S020

Note:

Dimensions in mm, unless otherwise stated



DN	H				
	T-Fitting	Saddle	Plastic spigot	Metal spigot	
20	185	-	-	-	
25	185	-	-		
32	188	-	-	-	
40	192	-	-	-	
50	198	223	- 0 /	193	
65	198	221	206	199	
80	-	226	212	204	
100	-	231	219	214	
110	-	227	-	-	
125	-	234	254	225	
150	-	244	261	236	
180	-	268	-	-	
200	-	280	282	257	
250	-	-	300	317	
300	-	-	312	336	
350	-	- \ \	325	348	
400	-	/	340	_	

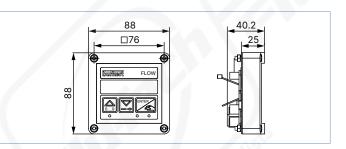
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5.3. Flow transmitter or remote batch controller

Universal flow transmitter, panel variant

Note:

Dimensions in mm, unless otherwise stated

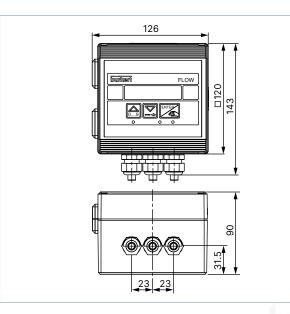




Universal flow transmitter, wall-mounted variant

Note:

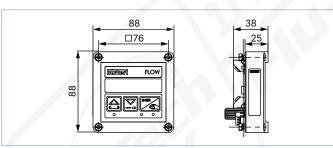
Dimensions in mm, unless otherwise stated



Flow transmitter for "Low Power" flowmeters, panel variant

Note:

Dimensions in mm, unless otherwise stated

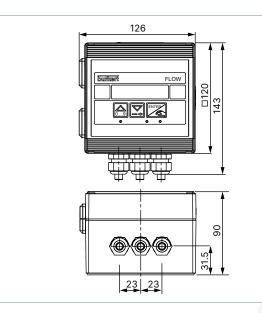




Flow transmitter for "Low Power" flowmeters, wall-mounted variant

Note:

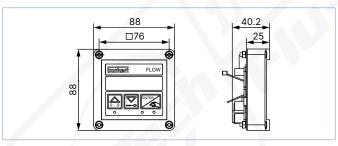
Dimensions in mm, unless otherwise stated



Remote batch controller, panel variant

Note:

Dimensions in mm, unless otherwise stated

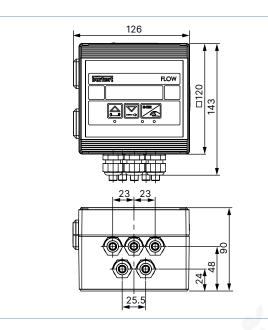




Remote batch controller, wall-mounted variant

Note:

Dimensions in mm, unless otherwise stated

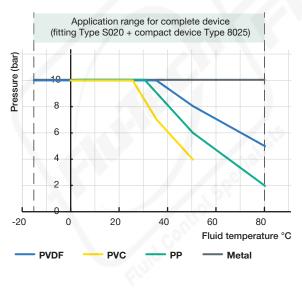


6. Performance specifications

6.1. Pressure temperature diagram

Note:

The following diagram applies only to the flowmeter or compact batch controller, with paddle-wheel.







7. Product installation

7.1. Installation notes

Flow measurement

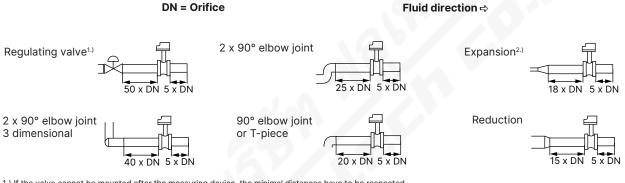
Note:

- The following installation instructions only apply to the flowmeter or compact batch controller, with paddle-wheel.
- The device is not suitable for use in gaseous media and steam.

Minimum straight distances upstream and downstream of the sensor must be observed. These stabilizing distances depend on the pipe's design. Increasing these distances or installing a flow conditioner may be necessary to obtain the best accuracy. For more information, refer to EN ISO 5167-1.

EN ISO 5167-1 specifies the straight inlet and outlet distances that must be complied with when installing fittings in pipe lines in order to achieve calm flow conditions. The most commonly used elements that could lead to turbulence in the flow are shown below. The related minimum inlet and outlet distances that ensure a calm flow are also specified.

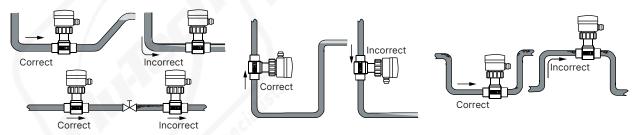
Make sure that the measuring conditions at the point of measurement are calm and problem-free.



If the valve cannot be mounted after the measuring device, the minimal distances have to be respected.
 If an expansion cannot be avoided, the minimal distances have to be respected.
 Please note minimum flow velocity

The device can be installed in either horizontal or vertical pipes, but following additional conditions should be respected:

- The pipe always has to be filled with fluid at all times near the device.
- The pipe design must be such that no air bubbles or cavitation can form within the medium near the device at any time.



Pressure and temperature ratings must be respected according to the selected fitting material. The suitable pipe size is selected using the diagram in the chapter "Nominal size selection" of the **data sheet Type S020** ▶.



8. **Product operation**

8.1. Measuring principle

Note:

The following measuring principles only apply to the flowmeter or compact batch controller, with paddle-wheel.

When liquid flows through the pipe, the paddle wheel with 4 inserted magnets is set in rotation, producing a measuring signal in the sensor (coil or Hall sensor depending on variant). The frequency modulated induced voltage is proportional to the flow velocity of the fluid. A K factor, specific to each pipe, enables the conversion of this frequency into a flow rate/volume. This K factor is available in the fittings' operating instructions, see Type S020 ▶.

Flowmeter:

The electronic component converts the measured signal into several outputs (according to the device variant) and displays the actual value. Totalizers are used to obtain the volume of fluid passed through the pipe.

The electrical connection for the flowmeter with standard output signal is provided via a cable plug according to DIN EN 175301-803 or two cable glands (according to the flowmeter variant).

Batch controller:

The electronic component converts the measured signal and displays the actual value of the volume or mass. The electrical connection is provided via two cable glands.

8.2. **Functional overview**

Display and operating keys

Note:

The following functional overview uses a picture of a panel-mounted variant of the unit, but applies to all variants of Type 8025.

The display is used to:

- read the value of certain parameters e.g. for the flowmeter, the measured flow rate, the main totalizer
- set parameters of the device by means of 3 keys
- read the configuration of the device
- be warned of certain events.

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Display and operating keys	No.	Description
	1	"Back" key:
C		 to change the value (09) of the selected digit
burkert FLOW		 to go back to the previous function
1		 read the batches history (only for batch controller)
	2	"Next" key:
0		to select the digit at the left
45		to go to the next function
		read messages (only with Insertion flowmeter as battery powered indicator/totalizer and with batch controller)
	3	"Confirm" key:
		to confirm the function displayed
		to confirm the parameters set
	4	For Insertion flowmeter with standard output signal and for transmitter for "Low Power" flowmeters
		- status LED of relay 2
		For Universal transmitter and batch controller
		 status LED of relay DO3 (LED ON = contact closed)
	5	 For Insertion flowmeter with standard output signal and for transmitter for "Low Power" flowmeters
		 status LED of relay 1
		For Universal transmitter and batch controller
		 status LED of relay DO2 (LED ON = contact closed)
	6	Status of device:
		No status for Insertion flowmeter with standard output signal and for transmitter for "Low Power" flowmeters
		For Insertion flowmeter as a battery powered indicator/totalizer
		 off: the device operates correctly.
		 blinking orange: a warning message is generated in the information menu.
		 blinking red: a fault message is generated in the information menu.
		For Universal transmitter
		 green: the device operates correctly.
		 orange: a warning message is generated in the information menu.
		 red: a fault message is generated in the information menu and a 22 mA current is sent on the current output if activated.
		 blinking, whatever the colour: a check for the correct behaviour of the output is running. The standard measurement function is inactive.
		For batch controller
		 green: the device operates correctly.
		 orange: an alarm related to the dosing and/or a warning message is generated in the infor- mation menu.
		 red: a fault message is generated in the information menu.
		 blinking, whatever the colour:
		 slow blinking: the dosing is interrupted.
		 fast blinking during a dosing: a dosing related alarm is generated.
	1	 fast blinking when no dosing is being done: the information menu has been remote-con- sulted or a check for the correct behaviour of the inputs/outputs is running.

The device can be calibrated by means of the K factor (proportionality factor) of the fitting, or via the teach-in function. User adjustments, such as engineering units, output, filter and bar graph are carried out on site.

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Operating levels

Flowmeter with standard output signal or flow transmitter

- The device has 2 operating levels:
- the process level
- the configuration level, which comprises the parameters and the test menus

Operating level	Functions
Process	This level allows: • to read - the value of the measured flow - the value of the 420 mA output - the value of the main totalizer - the value of the daily totalizer
	to reset the daily totalizer
	to access to the parameters and test menus of the configuration level
Configuration - parameters menu	This level allows: • to set the required operation parameters: - language - engineering units (international measuring units) - K factor/Teach-in function - 420-mA-current output - pulse output - relay (on devices with relays) - filter (damping) - resetting both totalizers - low flow "Cut Off" (only for Universal transmitter) - brightness of the display (backlight, only for Universal transmitter)
Configuration - test menu	 This level allows: to adjust the Offset and Span of the 420 mA current output to read the rotational frequency of the paddle wheel to check the correct operating of the outputs with simulating a flow rate to generate warning and fault messages (only for Universal transmitter)



Flowmeter as battery powered indicator/totalizer

- The device has 2 operating levels:
- the process level
- the configuration level, which comprises the parameters, the test and the information menus

Operating level	Functions
Process	This level allows:
	to read
	 the value of the measured flow
	 the value of the main totalizer
	 the value of the daily totalizer
	to reset the daily totalizer
	to access to the parameters, test and information menus of the configuration level
Configuration -	This level allows:
parameters menu	to set the required operation parameters
	- language
	 engineering units (international measuring units)
	 K factor/Teach-in function
	 filter (damping)
	 resetting both totalizers
Configuration - test	This level allows:
menu	to read the rotational frequency of the paddle wheel
	to generate warning and error messages
Configuration -	This level allows:
information menu	to read
	 the charge of the batteries
	 the error or warning messages



Batch controller, compact or remote variants

- The device has 2 operating levels:
- the process level
- the configuration level, which includes the parameters, the test, the information and the history menus

Operating level	Functions
Process	This level allows: to start a dosing
	to read
	 the value of the main totalizer of the quantity of fluid counted
	 the value of the daily totalizer of the quantity of fluid counted
	 the value of the main totalizer of the performed dosings
	 the value of the daily totalizer of the performed dosings
	 to reset
	 the daily volume or mass totalizer
	 the daily volume of mass totalized the daily totalizer of the performed dosings
	 to access to the parameters, test, information and history menus of the configuration level
Configuration -	This level allows:
parameters menu	to set the required operation parameters
	- language
	 engineering units (international measuring units)
	 K factor/Teach-in function
	- optional/dosing mode
	- overfill
	– alarm
	- outputs
	 resetting the 2 volume or mass totalizers
	 resetting the 2 totalizers of the performed dosings
	 resetting the history menu
	- backlight
Configuration - test	This level allows:
menu	to check
	 the inputs functions
	 the outputs functions
	 the paddle-wheel operation
	to monitor
	 the flow rate in the pipe
	 the value of the daily volume or mass totalizer
	 the number of performed dosings
	to save/ restore
	 the current user configuration
	- the saved configuration
	 the default configuration of the device
Configuration - history menu	This level allows to consult the quantities dosed in the last 10 dosings
Configuration - informa- tion menu	This level allows to read the fault and warning messages generated

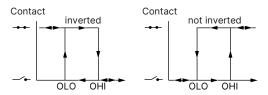


8.3. Function modes

Flowmeter with standard output signal

- 4...20 mA output + Pulse
- 4...20 mA output + Pulse + relay output Hysteresis switching mode (both relays) for the output, inverted or not





Batch controller, compact or remote variants

The following dosing modes are possible:

- Locally started dosing of
 - free quantity: the user enters the quantity to be filled and starts the dosing from the keypad.
 - pre-set quantity: the user selects a quantity which has been pre-set and starts the dosing from the keypad.
- Dosing controlled by a PLC unit: the user selects a quantity which has been pre-set and starts the dosing using binary inputs.
- Locally/remote selection of pre-set quantity and dosing controlled by a PLC unit: the user selects a quantity which has been pre-set from the keypad or using binary inputs and starts the dosing using binary inputs.
- Automatic dosing controlled by variation of pulse duration: the volume to be dosed is directly proportional to the duration of a pulse.

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- Locally/remote dosing determined by teach-in:
 - teach-in of the dosing quantity from the keypads
- teach-in of the dosing quantity using binary inputs.



9. Product design and assembly

9.1. Product assembly

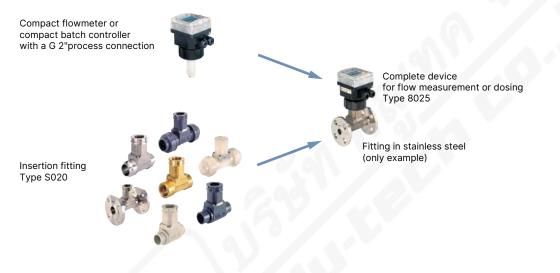
Flowmeter or compact batch controller

Note:

- The device Type 8025 is installed into a Bürkert Insertion fitting Type S020 and fastened with a union nut.
- The Insertion fitting Type S020 ensures simple installation into pipes from DN 20...DN 400, see data sheet Type S020 > for more information.

The device is equipped with a sensor with a paddle wheel, available in long or short variant (depending on the size of the used Insertion fitting). The sensor armature is plugged-in to the housing, which contains the electronic board with display and parameter keys.

The electrical connection is provided for the flowmeter via a cable plug or two cable glands (variant with standard output signal) and for the batch controller via two cable glands.



Flow transmitter or remote batch controller

Note:

The remote device Type 8025 is available in a wall-mounted or panel variant.

The panel variant is made up of an electronics integrated in an open housing with display. The electrical connection is carried out on the terminal blocks of the electronic board.



The wall-mounted variant is made up of an electronics integrated in a housing with cover and display. The electrical connection is carried out on the terminal blocks of the electronic board via three cable glands (for flow transmitter) or five cable glands (for batch controller).



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10. Networking and combination with other Bürkert products

10.1. Networking and combination of the compact device

Flowmeter with standard output signal

Example:





Compact batch controller

Example:



10.2. Combination of the compact device with available Type S020 Insertion fittings DN

DN	T-Fitting	do do	DN20	DN50 D	DN65 DN	100 DN 	200 DN3 	350 DN400
fittings	Welding socket	Ť			short se	nsor	long sensor	
S020 fi	Fusion spigot				short sensor		long sensor	
ailable S	Screw-on spigot						long sensor	
Avai	Saddle	-			long sen	sor		



10.3. Combination of the remote device

Note:

Connection possibilities according to the flow meter variant

						6		
		Universal transmitter			Transmitter for "Low Power" flowmeters		Remote batch controller	
		Panel	Wall- mounted	Panel	Wall- mounted	Panel	Wall- mounted	
.	Hall variant (short or long) Frequency output with pulse signal (NPN, PNP, open collector)	Yes	Yes	No	No	Yes	Yes	
Ť	Hall "Low Power" variant (short or long) Frequency output with pulse signal (NPN, open collector)	Yes	Yes	Yes	Yes	Yes	Yes	
Type 8020 Inse	rtion flowmeter		111.01					
	Hall variant Frequency output with pulse signal (NPN, PNP, open collector)	Yes	Yes	No	No	Yes	Yes	
}	Hall "Low Power" variant Frequency output with pulse signal (NPN, open collector)	Yes	Yes	Yes	Yes	Yes	Yes	
Type 8030 (SE30	+ S030) ▶ or Type SE30+S077 ▶ In	line flowmete	er					
	Frequency output with pulse signal (NPN, PNP, open collector)	Yes	Yes	No	No	Yes	Yes	
Type 8030 HT ▶	nline flowmeter for high temperature				I			
		Yes	Yes	No	No	Yes	Yes	
Type SE30 Ex + (S	6030 or S077) ► Inline flowmeter for I	hazardous ar	reas					
	Frequency output with pulse signal (NPN)	Yes	Yes	No	No	Yes	Yes	
Type 8031 ▶ Flow	sensor for low-flow measurement							
T	Frequency output with pulse signal (NPN)	Yes	Yes ^{1.)}	No	No	Yes	Yes ^{1,)}	
Type 8041 ▶ Inser	tion magnetic inductive flowmeter							
	Frequency output with pulse signal (NPN)	Yes	Yes	No	No	Yes	Yes	
Type 8071 ▶ or Ty 1.) Except device with Art	pe 8077 ▶ Flowmeter with oval rotor:	S						
., Except device with Art	1010 110. 418343							



11. Ordering information

11.1. Bürkert eShop



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11.2. Recommendation regarding product selection

Compact flowmeter or compact batch controller

A compact and complete flow measurement or batch control equipment consists of a compact flowmeter or batch controller Type 8025 and a Bürkert Insertion fitting Type S020.

See **data sheet Type S020 >** for more information.

Two different components must be ordered to obtain a complete device. The following information is required:

- Article no. of the desired compact flowmeter or batch controller Type 8025 (see chapter "Flowmeter" on page 36 or "Compact batch controller" on page 37)
- Article no. of the selected Type S020 Insertion fitting (see data sheet Type S020 ▶)

Universal flow transmitter

This transmitter Type 8025 (wall-mounted or panel-mounted variant) has to be connected to Bürkert flowmeters or to any other compatible flowmeter of a third-party provider.

Two different components must be ordered to obtain a complete device. The following information is required:

- Article no. of the desired Type 8025 Universal transmitter (see chapter "Universal transmitter" on page 37)
- Article no. of the selected Bürkert flowmeter (see chapter "10.3. Combination of the remote device" on page 34 and also the corresponding data sheet)

Flow transmitter for "Low Power" flowmeters

This transmitter Type 8025 (wall-mounted or panel-mounted variant) has to be connected **only** to Bürkert "Low Power" flowmeters, i.e:

- a Bürkert Type 8020 flowmeter "Low Power" variant associated to an Insertion fitting Type S020 or
- a Type SE30 flow transmitter "Low Power" variant associated to an Inline sensor-fitting. The Inline sensor-fitting can be either Type S030 (SE30+S030 = Type 8030) or Type S077.

Three different components must be ordered to obtain a complete device. The following information is required:

- Article no. of the desired Type 8025 transmitter for "Low Power" flowmeters (see chapter "Flow transmitter for "Low Power" flowmeters" on page 37)
- Article no. of the selected Bürkert Type 8020 flowmeter or Type SE30 flow transmitter (pulse "Low Power" variant) (see chapter "10.3. Combination of the remote device" on page 34 and also data sheet Type 8020 ▶ or data sheet Type 8030 ▶)
- Article no. of the selected Bürkert Insertion fitting Type S020 (DN 20...DN 400) or Bürkert Inline sensor-fitting Type S030 (DN 06...DN 65) or Inline sensor-fitting Type S077 (DN 15...DN 100) (see data sheet Type S020 ▶, data sheet Type S030 ▶ or data sheet Type S077 ▶).





Remote batch controller

This batch controller Type 8025 (wall-mounted or panel-mounted variant) has to be connected to Bürkert flowmeters or to any other compatible flowmeter of a third-party provider.

Two different components must be ordered to obtain a complete device. The following information is required:

- Article no. of the desired remote Type 8025 batch controller (see chapter "Remote batch controller" on page 38)
- Article no. of the selected Bürkert flowmeter (see chapter "10.3. Combination of the remote device" on page 34 and also the corresponding data sheet) or others

11.3. Bürkert product filter

Press Converter Matsur / frequency Matsur / frequency Matsur / frequency	Bürkert product filter – Get quickly to the right product
Anexactives College at lites Mening pressure max Moning pressure max	You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.
-1 bar 2 bar 2.5 -1 -2 -4 -5 -2.5	Try out our product filter

11.4. Ordering chart

Flowmeter Note:

- The following is supplied with every device: FKM seal as standard (already mounted), 1 set with a black EPDM seal for the sensor, a stopper for unused M20 × 1.5 cable gland, a 2 × 6 mm multi-way seal for cable gland and a mounting instruction sheet.
- The following variants have at least 2 volume totalizers.

Operating voltage	Sensor variant	Output	UL approval	Electrical connection	Article no.
Flowmeter wit	h standard ou	Itput signal			
1236 V DC	Hall, short	420 mA (2-wire) + pulse	-	Female cable plug DIN EN 175301-803	418762 🛒
			UL Recognized		570457 🛒
			-	2 cable glands	418802 🛒
			UL Recognized		570465 🛒
	Hall, long		-	Female cable plug	418763 🛒
			UL Recognized	DIN EN 175301-803 2 cable glands	570458 🛒
			-		418803 🖼
			UL Recognized		570466 🛒
	Hall, short	420 mA (3-wire) + pulse + 2 relays	-		418778 🛒
			UL Recognized		570461 🛒
	Hall, long		-		418779 🛒
			UL Recognized		570462 🛒
115/230 V AC	Hall, short	420 mA (2-wire) + pulse	-		418423 🛒
	Hall, long	CO14			418424 🖼
	Hall, short	420 mA (3-wire) + pulse + 2 relays			418431 🛒
	Hall, long				418432 🛒
Flowmeter as	battery powe	red indicator/totalizer			
4 × 1.5 V DC	Coil, short	None	-	None	418403 🛱
AA Batteries	Coil, long				418405 🛒

Further variants on request

Approval

FDA, UL Recognized for USA and Canada (UL 61010-1 + CAN/CSA-C22.2 No. 61010-1)



Compact batch controller

Note:

- The following is supplied with every device: FKM seal as standard (already mounted), 1 set with a black EPDM seal for the sensor, a stopper for unused M20 × 1.5 cable gland, a 2 × 6 mm multi-way seal for cable gland and a mounting instruction sheet.
- The following variants have at least 2 volume or mass totalizers and 2 totalizers of the number of dosing performed.

Operating voltage	Sensor variant	Input	Output	UL approval	Electrical connection	Article no.
1236 V DC	Hall, short	4 digital inputs	and DO4) + 2 relay outputs (DO2 and DO3)	-	2 cable glands	419520 🛒
		(DI1DI4)		UL Recognized		564414 🐖
	Hall, long			-		419522 🛒
				UL Recognized		570469 🛒
115/230 V AC	Hall, short			-		419521 🛒
	Hall, long					419529 🛒

Universal transmitter

Note:

- Sensor variant: Types 8020, 8030 (SE30+S030), SE30+S077, 8041, 8071, 8077... (see chapter "10.3. Combination of the remote device" on page 34.
- The following variants have at least 2 volume totalizers.

Operating voltage	Output	UL approval	Electrical connection	Article no.
Panel mounted	l variant			
1236 V DC	1current output 420 mA (AO1, 3-wire) +1 pulse output	-	Terminal strip	419538 🛒
	(DO1)	UL Recognized		564416 🛒
	1current output 420 mA (AO1, 3-wire) +1 pulse output	-		419537 🛒
	(DO1) + 2 relay outputs (DO2 and DO3)	UL Recognized		564417 🛒
Wall-mounted	variant			
1236 V DC	1current output 420 mA (AO1, 3-wire) +1 pulse output (DO1)	-	3 cable glands	419541 🛱
	1current output 420 mA (AO1, 3-wire) + 1 pulse output (DO1) + 2 relay outputs (DO2 and DO3)			419540 🛱
115/230 V AC	1current output 420 mA (AO1, 3-wire) + 1 pulse output (DO1)			419544 🛒
	1current output 420 mA (AO1, 3-wire) + 1 pulse output (DO1) + 2 relay outputs (DO2 and DO3)			419543 🛱

Flow transmitter for "Low Power" flowmeters

Note:

- Sensor variant: only Types 8020, 8030 and SE30+S077 in "Low Power" variant (see chapter "10.3. Combination of the remote device" on page 34).
- The following variants have at least 2 volume totalizers.

Operating voltage	Output	UL approval	Electrical connection	Article no.
Panel mounte	d variant			
1236 V DC	420 mA (2-wire) + pulse	-	Terminal strip	418992 🐖
		UL Recognized	-	552725 🛒
	420 mA (3-wire) + pulse + 2 relays	-		418994 🛒
		UL Recognized		552726 🛒
Wall-mounted	l variant			
1236 V DC	420 mA (2-wire) + pulse	-	3 cable glands	418397 🛒
115/230 V AC	420 mA (3-wires) + pulse + 2 relays			418396 🛒
	420 mA (2-wire) + pulse			418400 🛒
	420 mA (3-wire) + pulse + 2 relays			418399 🐖

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Remote batch controller

Note:

- Sensor variant: Types 8020, 8030 (SE30+S030), SE30+S077, 8041, 8071, 8077... (see chapter "10.3. Combination of the remote device" • on page 34.
- The following variants have at least 2 volume or mass totalizers and 2 totalizers of the number of dosing performed.

Operating voltage	Input	Output	UL approval	Electrical connection	Article no.
Panel mounted	d variant				
1236 V DC 4 digital input (DI1DI4)	4 digital inputs	2 transistor outputs (DO1 and DO4) + 2 relay outputs (DO2 and DO3	-	Terminal strip	419536 🛒
	(DI1DI4)		UL Recognized		564415 🛒
Wall-mounted	variant				
1236 V DC	4 digital inputs		-	5 cable glands	433740 🛒
115/230 V AC	(DI1DI4)				433741 🛒

11.5. Ordering chart accessories

11.5. Ordering chart accessories	
Accessories for compact device	
Description	Article no.
For flowmeter or compact batch controller	
Set with two cable glands M20 × 1.5, two neoprene flat seals for cable gland or plug, two screw plugs M20 × 1.5 and two multi-way seals 2×6 mm	449755 🛒
Set with two adaptors M20 × 1.5 /NPT ½", two neoprene flat seals for cable gland or plug and two screw plugs M20 × 1.5	551782 ቛ
Set with a stopper for unused cable gland M20 × 1.5, a multi-way seal 2 × 6 mm for cable gland, a black EPDM seal for the sensor and a mounting instruction sheet	551775 🛒
Set with a green FKM seal and a black EPDM seal	552111 🛒
Fastening ring (open) for Type S020 Insertion fitting	619205 🛒
PC union nut for Type S020 Insertion fitting	619204 🛒
For flowmeter	
Female cable plug, 4-pin (3 conductors + protective conductor), form A according to DIN EN 175301-803 with cable gland (Type 2518 ▶)	572264 👾
Female cable plug 32 mm, 4-pin (3 conductors + protective conductor), form A according to DIN EN 175301-803, with NPT $\frac{1}{2}$ " reduction without cable gland (Type 2509)	162673 🫒
For batch controller	
Set with 8 FLOW front panel films	553191 🐖

Accessories for remote device

Description	Article no.
For flowmeter or remote batch controller, panel variant	
Mounting set (screws, spring lock washers, hexagon nuts, cable clips)	554807 🛱
Flat seal	419350 🛱
Set with 8 FLOW front panel films	553191 🛱
For flowmeter or remote batch controller, wall-mounted variant	
Power supply board 115/230 V AC + mounting instruction sheet	555722 🛱