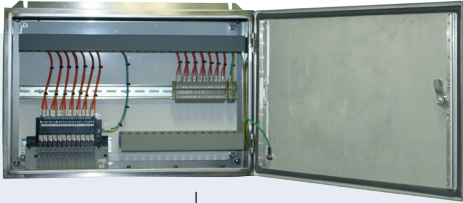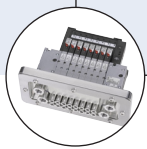# Smart Panel

bürkert
FLUID CONTROL SYSTEMS

Smart Panel using AirLINE Quick

- Fast assembly with minimal labour requirement
- Robust for arduous environments
- Certified IP66 ingress protection
- Pneumatic and electro-pneumatic cabinets

Smart Panels can be combined with...

Type 8640
AirLINE Quick valve manifold

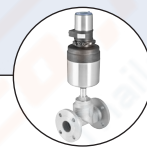**Type TPM**
Filter regulator assembly
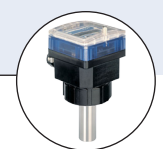
Type 8801
ELEMENT on/off control valve

Type 8222
ELEMENT conductivity sensor

Type 8802
ELEMENT modulating control valve

Type 8045
Insertion magflow meter

Smart Panels with AirLINE Quick offer a flexible and modular pneumatic or electro-pneumatic control cabinet solution. Using high-tech assembly procedures and standardised production components, these cabinets are produced effectively without labour. This development in next-gen production techniques has dramatic implications for improved delivery times and pricing.

The system also offers advances relative to alternatives, with high IP66 protection for dusty, wet, and caustic wash down environments. Designed for the Australian and New Zealand markets, this solution addressed local industry needs and certifications. The system also expands possibilities for partnership as an OEM partner for local control cabinet manufacturers and specialised supplies to regional industry.

Applications

- Pneumatic valve banks
- Valve banks with I/O
- Wet environments
- Mineral processing environments
- Food & beverage wash down areas

Technical data, AirLINE Quick Smart Panels	
Cabinet enclosure	
Cabinet (options)	Powder coated steel (RAL 7032), or Stainless steel 316L
Internal mounting plate	Zinc steel, painted gloss white
Cabinet sizes [mm]	
Small	350H x 250W x 200D
Medium	400H x 600W x 200D
Large	600H x 600W x 200D
Extra large	800H x 800W x 300D
Ingress protection certification	IP66 [rated for dusty environments, flooding water to 1m]
Valve positions possible	
Type 8640 pneumatic	Manifolds for 4, 8, 12, or 16 valve stations
Type 8644 pneumatic & I/O	Manifolds for 8, 12, 16, or 24 valve stations plus I/O
Valve functions	
Standard	3/2 NO, 3/2 NC, 3/2 dual function high density, 5/2
Hot swap versions	3/2, 3/2 high density, 5/2
Valve flow rate	300 l/min [hot swap versions to 200 l/min]
Pressure range	Vac. to 10 bar
Feedbacks [Type 8640]	Maximum 32 feedbacks
Electrical connections [for Type 8640]	Terminal connection (pre-wired screwed) Multipin connection (Sub D 25 pin) [on request: Profibus DP, DeviceNet, CANopen, Profinet IO, Ethernet IP, Modbus TCP]
Connection & I/O providers [for Type 8644]	Siemens, Rockwell (Allen-Bradley), Wago [on request: GE Versapoint, Phoenix InLINE, Beckhoff]
Ambient temperature	0 to +55°C
Operating voltage	24V DC, 1W (rated for continuous operation)

บริษัท ฟลูเทค จำกัด
FLU-TECH CO.,LTD

845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270
845/3-4, Mhoo 3, Theparak Rd., T. Theparak, A. Muang, Samut Prakan, 10270, Thailand
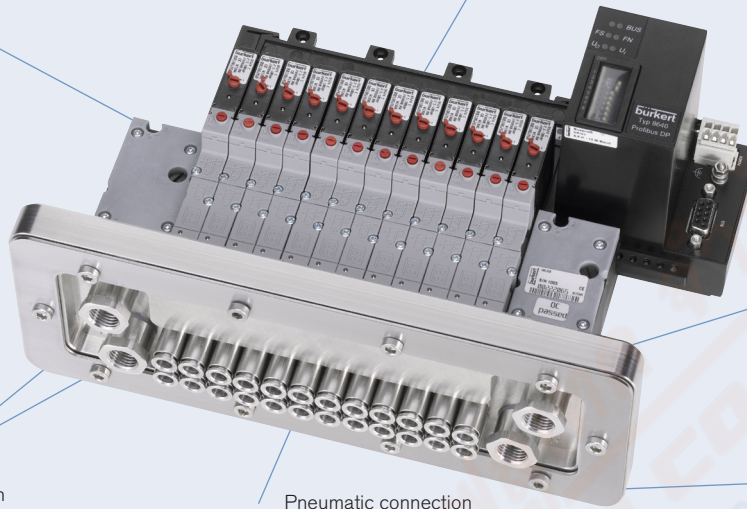Tel. 02 384 6060, Fax. 02 384 5701 Email sales@flutech.co.th , www.flutech.co.th

AirLINE Quick

Shows manifolds and options that are in the standard Smart Panel programme

AirLINE Quick Type 8640 pneumatic manifold

Valve width 11mm

Valve function per manifold Type 8640: 4, 8, 12, 16
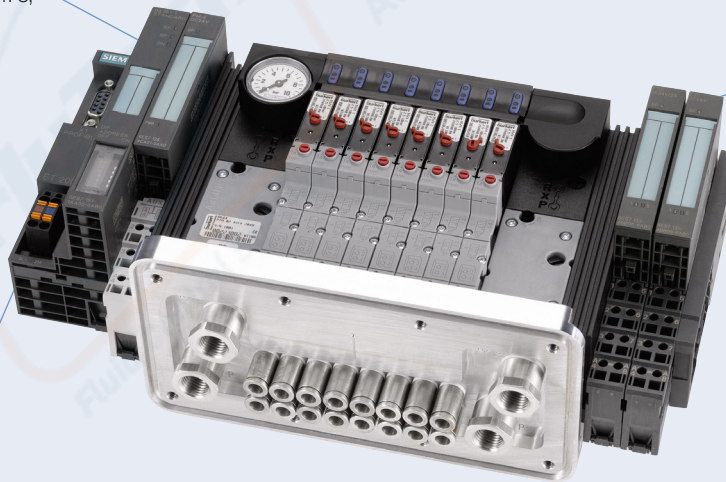
Adapter plate in stainless steel 316L

Pneumatic connection supply ports in stainless steel:
- G 1/4

Pneumatic connection working ports in stainless steel:
- push-in 6mm
- G 1/4

Stabilising metal plate is fixed on the outside of the control cabinet

AirLINE Quick Type 8644 pneumatic manifold with I/O

Valve function per manifold Type 8644: 8, 12, 16, 24

Siemens ET 200S, PM-E 24 V DC power module

Siemens ET 200S interface

AirLINE Quick Type 8644 with Siemens, Rockwell (Allen Bradley) and Wago also available in standard Smart Panel programme

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Smart Panel cabinets

Shows cabinets and options that are in the standard Smart Panel programme

Certified IP66

Stainless steel 316L, or
Powder Coated Steel
(RAL 7032)

Sizes in standard programme:
Small: 350H x 250W x 200D
Medium: 400H x 600W x 200D
Large: 600H x 600W x 200D
Extra large: 800H x 800H x 300D

Cutout in base for
AirLINE Quick manifold

Small cabinet
350H x 250W x 200D

Medium cabinet
400H x 600W x 200D

Large cabinet
600H x 600W x 200D

Extra large cabinet
800H x 800H x 300D

Wall mounting bracket for panel
Material: Stainless steel 316L
Versions to suit cabinet widths:
- 250mm wide
- 600mm wide
- 800mm wide

Cabinets shown are part of the standard Smart Panel programme; all cabinet sizes are available with Bürkert Systems

Air preparation

Shows air preparation units that are in the standard Smart Panel programme

Filter regulator assembly

Complete assembly mounts direct with Smart Panel and conditions pneumatic air (or gas) for use

PlasticGrivory GV-6H with 60 % glass fiber

Pressure 1.5 - 12 bar

Filter 5 µm

Sizes:
 - G1/4 for 4 - 12 valves
 - G1/2 for 16 - 24 valves

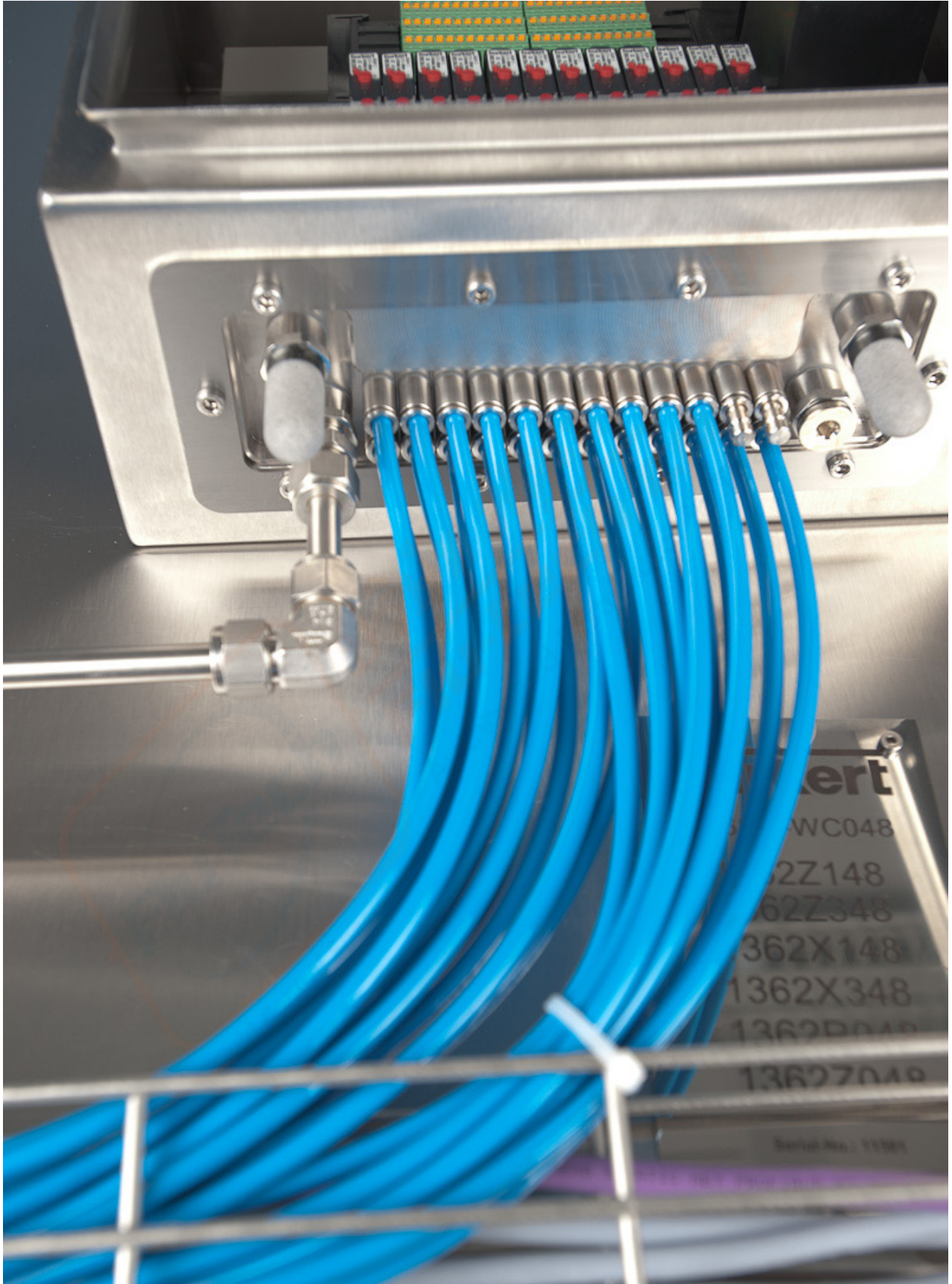Includes filter regulator, gauge & mounting bracket

Isolation valve kit
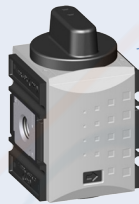
Pad-lockable handle

Sizes:
 - G1/4 for 4 - 12 valves
 - G1/2 for 16 - 24 valves

Number of valves	Recommended air preparation devices
4 Station	G 1/4
8 Station	
12 Station	
16 Station	G 1/2
24 Station	

Air preparation units shown are part of the standard Smart Panel programme; all air prep options and sizes are available with Bürkert Systems

WWW.FLUTECH.CO.TH   SALES@FLUTECH.CO.TH   + 66 (0) 2384-6060   + 66 (0) 2384-5701

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Smart Panel

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Smart Panel specification sheet

Please complete and send to Bürkert for prompt quotation and response.

Company _____

Contact person _____

Address _____

Position/Department _____

Suburb _____

Telephone _____

State, Postcode _____

Email _____

[ ] **Quantity**　　[ ] **Required delivery date**

AirLINE Quick manifold

Valve function
- [ ] 3/2 way
  For spring return actuators
- [ ] Dual 3/2 way, high density
  For compact valve banks
- [ ] 5/2 way
  For double-acting actuators

Hot swap functionality
- [ ] I want Hot Swap so I can replace valves while the system is operating

Valve positions per manifold
[NB: 1 dual 3/2 valve = 1 position]
- [ ] 04 *[8640 only]*
- [ ] 08
- [ ] 12
- [ ] 16
- [ ] 24 *[8644 only]*

Type of valve bank
- [ ] Type 8640 pneumatic valve bank
- [ ] Type 8644 pneumatic valve bank with I/O

Electrical connection
- [ ] Terminal
- [ ] Multipole
- [ ] Siemens
- [ ] Rockwell
- [ ] Wago

Multipole 5m cable [ ]
Multipole 10m cable [ ]

Siemens		Rockwell		Wago	
Profibus DP Basic	[ ]	*Ethernet IP 1port*	[ ]	*Ethernet 1port*	[ ]
Profibus DP Std	[ ]	*Ethernet IP 2port*	[ ]	*ProfiNET 2port*	[ ]
Profibus DP Hi Feat	[ ]	*ControlNET*	[ ]	*ProfiBUS*	[ ]
ProfiNET	[ ]	*DeviceNET*	[ ]	*DeviceNET*	[ ]

If I/O Required:　DI [ ]　DO [ ]　AI [ ]　AO [ ]　Other [ ]

Cabinet

Cabinet size
- [ ] Use smallest cabinet possible for my needs
- [ ] I want a larger cabinet to fit other components [note specialised needs below]

Cabinet material
- [ ] Stainless steel 316L
  Uses stainless steel valve mounting plate
- [ ] Powder coated steel, RAL 7032
  Uses aluminium valve mounting plate

Mounting bracket
- [ ] I want a mounting bracket to connect the cabinet to the wall

Air preparation

Filter regulator kit
- [ ] I want a filter regulator kit, that includes filter regulator, gauge & wall mounting bracket
  Note: Filter regulator assembly is typically mounted on a wall external to the cabinet

Filter regulator & isolation valve kit
- [ ] I want an isolation valve kit, that includes a filter regulator kit (kit described above) and an isolation valve & coupling kit

Notes

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