

# IO VALVE BOX

Zones 1, 2, 21, 22

Full catalogue available on our website: [www.inpratex.com](http://www.inpratex.com)

## ATEX REMOTE IO SOLUTIONS

## ZONES 1, 2 (gas) & 21, 22 (dust)



This 3 in 1 solution provides plant and machine manufacturers for the first time a decentralized and compact solution with Profinet or Modbus TCP/IP to control pneumatic actuators for hazardous area Zone 1/21

### Applications:

- Paint shops
- Pharmaceutical plants
- Bulk materials handling systems
- Mixing / grinding plants
- Industrial heating / cooling systems
- Sewage treatment plants
- And much more



EU-Type Examination Certificate



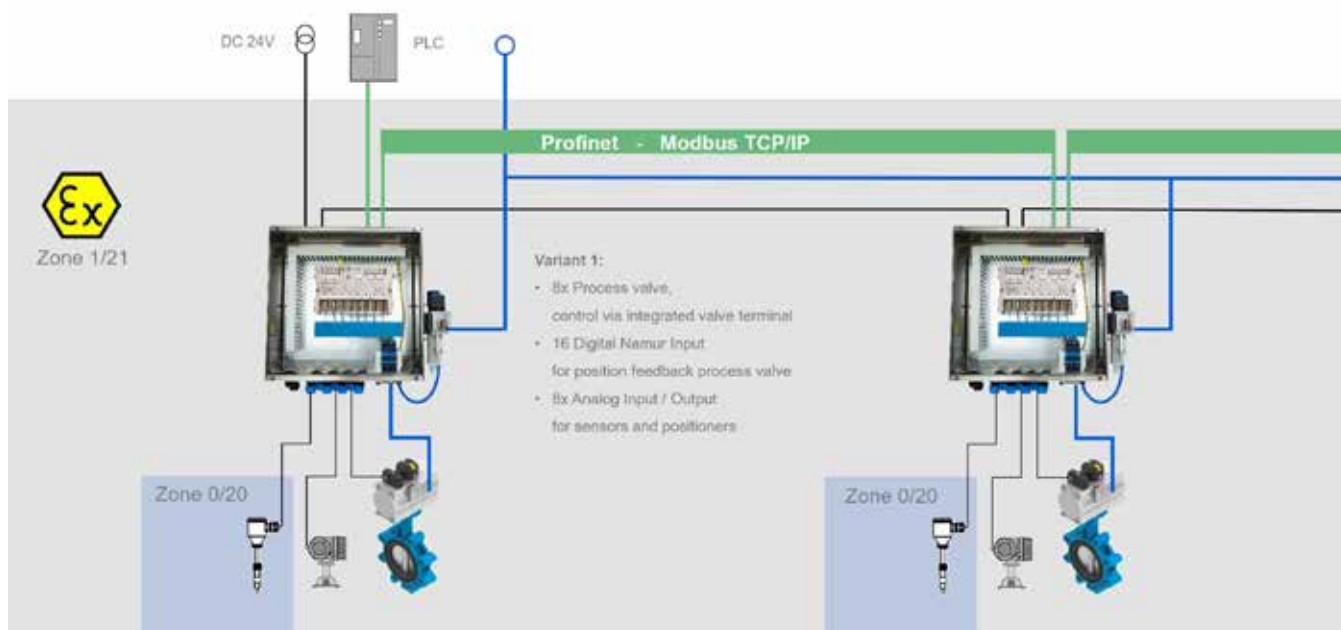
### Customer benefit: Compact - Simple - Fast

- ✓ Central Ethernet connection Profinet or Modbus TCP/IP
- ✓ Central pneumatic connection
- ✓ Easy decentralized installation - guarantees short distance to sensors and pneumatic actuators
- ✓ No compressed air tubing inside the box
- ✓ Cost savings and less installation effort



## ITEM REFERENCES

Designation:	Item No.:
IO Valve Box	9F0104




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IP20 Ex i IO module	Festo valve terminal
<ul style="list-style-type: none"> <li>- Profinet or Modbus TCP/IP</li> <li>- Include busnode, isolating amplifiers and intrinsically safe IO channels</li> </ul> <p>Intrinsically safe IO channels</p> <ul style="list-style-type: none"> <li>- 16 DI Namur</li> <li>- 8 DO</li> <li>- 8 DO (AIO) Individually adjustable as DO, AI, AO or Switching Mode</li> </ul>	<p>The valve terminal CPV10-EX-VI is intrinsically safe II 2G Ex ib IIC T4 (-5°C* ≤ Ta ≤ 50°C) *Pressure dew point: -15 C, alternatively class x:3:x according to ISO 8573-1: 2010</p> <ul style="list-style-type: none"> <li>- Pneumatic aluminum multipole, enclosure type IP65</li> <li>- Valve width 10 mm wide, Flow rate 400 l/min</li> <li>- Operating pressure: 0 ... 10 bar ; Pilot pressure: 3 ... 8 bar</li> <li>- 4 valve discs with valve 2x 3/2- way (further variants on request)</li> <li>- Manual override detenting</li> </ul>

TECHNICAL SPECIFICATIONS	
Marking:	<p> II 2(1)G/D Ex eb mb ib [ia Ga] IIC T4 Gb Ex tb [ia Da] IIIC T80°C Db</p>
Certificate:	EU-Type Examination Certificate
Operating temperature:	-5C to +40°C
Dimensions:	380x380x161 mm
Ingress protection:	IP65
Material:	Ex e enclosure, Stainless steel 1.4404 (V4A)
<p>Consist of:</p> <ul style="list-style-type: none"> <li>4x cable glands M20x1,5 (Ex e) 4-13 mm</li> <li>20x cable glands M20x1,5 (Ex i) 4-13 mm (all cable glands are closed with mushroom caps)</li> <li>4x wall mounting bracket</li> <li>2x pull in nuts M5 (mounting for optional Festo service unit combination MSB4)</li> </ul> <p>1x Ex i IO Module type 14200101</p> <p>1x Festo valve terminal CPV10 Ex i with aluminum multipole type 10P-10-4A-IC-R-Y-4CY-EX3+GQCA Equipped with 4 x CY 2x3/2 valves, normally closed, with integrated back pressure protection</p> <p>Shield rail with shield connection clamp or EMC cable glands on request</p> <p>Remark: When using the Ex e cover caps (accessory), the Ex e enclosure may be opened while energized, provided that there are no other open Ex e connections in the enclosure.</p>	

