

# CPX terminal

## Pressure sensor module CPX-4AE-P



### Integrated Analog sensors on the valve terminal

**I/O module for all processes with pressure sensors.** Highest level of function integration in the smallest space – all that in IP65/IP67. Whether in process automation or manufacturing processes, the new CPX-4AE-P pressure sensor module simplifies installation in the field as well as engineering. By quite a bit.

#### **It also pays off immediately**

Eliminating the external sensors reduces its space requirement on the one hand, and on the other, the time required until safe commissioning. Just connect the tube to the 100 % pretested module and you are ready. But that is not all: four QS plug connectors (4 mm) per module save channel costs. Channel-orientated diagnostics helps to minimize downtime for the long term. And simple function integration into existing fieldbus/Ethernet networks also reduces the system costs.

#### **Uncomplicated and controlled:**

Complicated pressure value engineering is even eliminated. No conversion required: absolute values for parametrisation, diagnostics and evaluation are instantly available. They are directly transmitted to the control program as mbar, psi and kPa via fieldbus and displayed on the LCD display of the module at the same time. Isn't that efficient!

**Function integration from Festo = comprehensive, tested and innovative**



Integrated diagnostics

Accelerated commissioning

Absolute values

210.16.PSI →

Product Short Information

# CPX terminal

## Pressure sensor module CPX-4AE-P

### It can't get any easier!

All components in one: I/O, cable, plug and pressure sensors are also integrated. This saves time and lowers costs.

For installation as well:  
Simply connect and it's ready to go!  
No commissioning necessary.



Pressure sensor module  
CPX-4AE-P

### Benefits

#### • Lower-cost

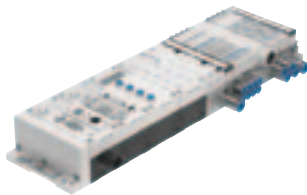
Shorter installation time because individual sensors are replaced in the field

#### • More effective

Lower system costs via function integration into Festo CPX/MPA valve terminals

#### • More efficient

Little or no downtime as a result of remote diagnostics and condition monitoring via fieldbus/Ethernet



### Technical data

Type	CPX-4AE-P-D10	CPX-4AE-P-B2
Channels	4 x relative or 2 x differential pressure measurement	
Resolution	10 bit (20 mbar increments)	10 bit (5 mbar increments)
Accuracy	Max. $\pm 3\%$ measurement error within measuring range (-5 to 50°C)	
	(Max. 300 mbar)	(Max. 60 mbar)
Repetition accuracy	0.3 % at 25 °C	
Measuring range	0 to 10 bar	-1 to 1 bar
Module cycle time	Typ. 5 ms	
Analogue value formats	16-bit values (per channel) scaled to: <ul style="list-style-type: none"> <li>• mbar (factory setting)</li> <li>• psi (1/10)</li> <li>• kPa</li> <li>• 15 bit incremental (3276 incr./1 bar)</li> </ul>	
Parameters	<ul style="list-style-type: none"> <li>• Measured value rounding (screen signals)</li> <li>• Diagnostics delay and hysteresis (tolerance of diagnostic behaviour)</li> <li>• Limit value detection (with diagnostic messages via fieldbus)</li> <li>• Overrange (with diagnostic messages via fieldbus)</li> </ul>	
Diagnostics	upper/lower limit and pressure overload	
Protection class	IP65/67	
Tubing	4 mm (push-in connector, QS-4)	
Display	LCD Display with channel value and diagnostics display	

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