



EPI3174-0002 | 4-channel analog input ± 10 V or 0/4...20 mA, parameterisable, differential input, 16 bit

The EPI3174 IO-Link box has four analog inputs which can be individually parameterised, so that they process signals either in the $-10 \dots +10$ V or the 0/4...20 mA range. The voltage or input current is digitised with a resolution of 16 bits, and is transmitted (electrically isolated) to the higher-level automation device. The four input channels have differential inputs and possess a common, internal ground potential. The input filter and therefore the conversion times are configurable in a wide range. If required, the inputs can be scaled differently, and automatic limit monitoring is also available.

Technical data	EPI3174-0002
Communication	IO-Link
Data transfer rates	230.4 kbaud (COM 3)
Specification version	IO-Link V1.1, Class B
Number of inputs	4
Input connections	M12, screw type
Interfaces	1 x M12 plug, A-coded
Signal type	$-10/0 \dots +10$ V 0/4...20 mA
Internal resistance	> 200 k Ω typ. 85 Ω + diode voltage
Common-mode voltage U_{cm}	max. 35 V
Resolution	16 bit (incl. sign)
Measuring error	$< \pm 0.3$ % (relative to full scale value)
Input filter limit frequency	5 kHz
Conversion time	~ 100 μ s
Input filter	configurable
Sensor supply	from additional power supply 2L+, DC, freely selectable up to 30 V
Current consumption	typ. 100 mA from L+
Bit width in the process image	4 x 16 bit input, 4 x 8 bit status
Electrical isolation	L+/2L+: yes
Special features	current or voltage parameterisable (0/4...20 mA, $-10/0 \dots +10$ V)
Operating/storage temperature	$-25 \dots +60$ °C/ $-40 \dots +85$ °C
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. class/installation pos.	IP 65/66/67 (conforms to EN 60529)/variable
Approvals	CE, UL

Related products	
EP6228	EtherCAT Box, industrial housing, 8-channel IO-Link master, IP 67
EP6224	EtherCAT Box, industrial housing, 4-channel IO-Link master, IP 67
EL6224	EtherCAT Terminal, IO-Link master, IP 20
KL6224	Bus Terminal, IO-Link master, IP 20