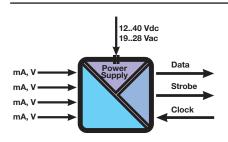




Z-4AI-D

4-CH DC CURRENT-VOLTAGE A/D CONVERTER





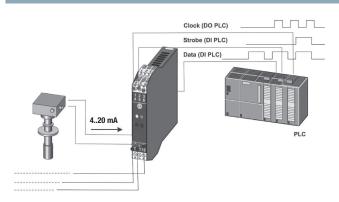
Z-4AI-D allows to acquire up to N.4 analogue inputs (ma or V) through a PLC with only digital input/output. The PLC interface is based on three PNP-type signals suited for connection to most PLCs available in the market.

The interface is composed of a CLOCK signal generated by the PLC (transistor output), a DATA signal and STROBE signal generated by the module.

TECHNICAL SPECIFICATIONS				
General Data				
Power supply	1940 Vdc / 1928 Vac / 50-60 Hz			
Power consumption	2,5 W			
Isolation	1.500 Vac (3 way)			
Power transducers	Yes			
Status Indicators	Power supply, error, data transmission, data reception, input status			
Protection Degree	IP20			
Operating Temperature	0+55 °C			
Dimension (W x H x D)	17.5 x 100 x 112 mm			
Mounting	35 mm DIN rail guide			
Communication, Memory Process				
PLC communication	3-wire synchronous serial: CLOCK, DATA, STROBE, standard levels 24V pnp.			
PLC type	Interface for PLC on standard digital I/O (only DC).			
Sampling time	Sampling time settable at 400 ms @ 14 bit + sign, 200 ms @ 13 bit + sign.			
Distance	Up to 100 m (with shielded cable)			
Signals				
Channel Numbers	4			
INPUT	VOLTAGE Bipolar with f.s. +/-10V DC or +/- 2V DC, input impedance 100 Kohm, resolution 14 / 13 bit + sign. CURRENT Bipolar with f.s. +/- 20 mA DC, input impedance 100 ohm, resolution 14 / 13 bit + sign.			
Programming				
Software	The programming necessary for the PLC is extremely reduced: the SIEMENS S7-200 PLC requires one 10 lines of Ladder in order to read the analogue inputs; this corresponds to approx. 187 byte of programming space. It is not necessary to read all the channels: the programming tool can be used to decide which channels to be sent to the PLC. The tool also the selection of the module's various operating modes: field of measurement, filter, type of serialisation, type of data sent to the PLC, etc.			
Standard				
Approvals	CE			
Norms	EN 50081-2; EN 55011; EN 50082-2; EN 61000-2-2/4; EN			

50140/141; EN 61010-1

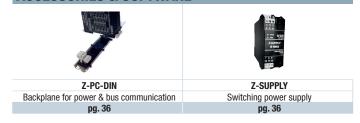
APPLICATION NOTE



ORDER CODES

Code	Description
Z-4AI-D	4-CH DC current-voltage A/D converter, 1940 Vdc / 1928 Vac

ACCESSORIES & SOFTWARE



SIMILAR PRODUCTS				
September 1		111 111 111 111 111 111 111 111 111 11		
Z-4TC-D	Z-4AI	Z-8AI		
4-CH thermocouples A/D converter	4-CH analog input module / ModBUS	8-CH analog input module / ModBUS		
pg. 46	pg. 16	pg. 17		