



Main

Range of product	Modicon X80
Product or component type	Analog input module
Electrical connection	20 ways 1 connector
Isolation between channels	Isolated
Input level	High level
Analogue input number	4
Analogue input type	Current 4...20 mA

Complementary

Analog/Digital conversion	16 bits
Analogue input resolution	13 bits 0...12500 counts
Input impedance	10 MOhm
Permitted overload on inputs	25 mA 4...20 mA
Internal conversion resistor	286 Ohm
Precision of internal conversion resistor	0.1 % - 15 ppm/°C
Type of filter	Second order digital filtering
Nominal read cycle time	6 ms for 4 channels
Measurement error	<= 0.3 % of full scale 4...20 mA - 25...60 °C
Temperature drift	30 ppm/°C 4...20 mA
Recalibration	Internal
Common mode between channels	120 dB
Digital value format	+/- 32000 in user scale +/- 10000 by default
Isolation voltage	500 V DC between channels 1500 V DC between channels and ground 1500 V DC between channels and bus
Measurement resolution	2 µA 4...20 mA
Maximum conversion value	0...25 mA 4...20 mA

MTBF reliability	763872 H
Operating altitude	0...2000 m 2000...5000 m with derating factor
Status LED	1 LED (green)RUN: 1 LED per channel (green)channel diagnostic: 1 LED (red)ERR: 1 LED (red)I/O:
Product weight	0.143 kg
Current consumption	200 mA at 3.3 V DC 115 mA at 24 V DC

Environment

Vibration resistance	3 gn
Shock resistance	15 gn
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	-25...60 °C
Relative humidity	5...95 % at 55 °C without condensation
IP degree of protection	IP20
Product certifications	TÜV CSA EAC RCM UL ATEX Merchant Navy
Standards	CSA C22.2 No 61010-2-201 EN/IEC 61131-2 EN/IEC 61010-2-201 UL 61010-2-201
Environmental characteristic	Gas resistant class Gx Gas resistant class 3C4 Dust resistant class 3S4 Sand resistant class 3S4 Salt resistant level 2 Mold growth resistant class 3B2 Fungal spore resistant class 3B2

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
----------	-----------