



### 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
Permitted overload on inputs	25 mA 4...20 mA
Input impedance	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
Minimum crosstalk attenuation	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
Net 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 Fungal spore resistant class 3B2 conforming to IEC 60721-3-3

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	340 g
Package 1 Height	5.4 cm
Package 1 width	17.9 cm
Package 1 Length	25.8 cm
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Weight	2.72 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm

## Offer Sustainability

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