



Main

Range of product	Modicon X80
Product or component type	Multifunction input module

Complementary

Function available	Hot swap
Data recording	1 ms time stamps
Time synchronisation protocol	DCF77 IRIG-B
Group of channels	4 groups of 4 inputs for process input
[Us] rated supply voltage	24 V DC (voltage range: 19...30 V) 48...60 V DC (voltage range: 38...75 V) 110...125 V DC (voltage range: 88...156 V)
Switching voltage	125 V at 1.3 mA for process input 110 V at 1.3 mA for process input 60 V at 2.5 mA for process input 48 V at 2.5 mA for process input 24 V at 6.7 mA for process input
Maximum power consumption in W	4 W for process input
Current consumption	30 mA at 24 V DC 130 mA at 3.3 V DC
Isolation voltage	2500 V DC for 60 s bus to discrete input 1400 V DC for 60 s bus to IRIG/DCF 2500 V DC for 60 s discrete input to IRIG/DCF
Anti bounce filtering	Configurable from 0 to 255 ms
Sampling duration	0.5 ms
Acquisition time	1 ms
Local signalling	1 LED (green) for firmware and module run (RUN) 1 LED (green) for status of time code input (T) 1 LED (red) for module fault (ERR) 1 LED (red) for power supply interruption (I/O)

16 LEDs for input status (0...15)

Width	32 mm
Height	100 mm
Depth	86 mm

Environment

Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	95 % without condensation
Protective treatment	Conformal coating
Operating altitude	0...2000 m 2000...5000 m
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Product certifications	CE UL CSA RCM EAC Merchant Navy
Standards	EN 61131-2 EN/IEC 61010-2-201 UL 61010-2-201 CSA C22.2 No 61010-2-201 IACS E10 EN/IEC 61000-6-5, interface type 1 and type 2 EN/IEC 61850-3, location G
Environmental characteristic	Gas resistant class Gx conforming to ISA S71.04 Gas resistant class 3C4 conforming to IEC 60721-3-3 Dust resistant class 3S4 conforming to IEC 60721-3-3 Sand resistant class 3S4 conforming to IEC 60721-3-3 Salt resistant level 2 conforming to IEC 68252 Mold growth resistant class 3B2 conforming to IEC 60721-3-3 Fungal spore resistant class 3B2 conforming to IEC 60721-3-3 Hazardous location class I division 2

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	171 g
Package 1 Height	8.6 cm
Package 1 width	3.2 cm
Package 1 Length	10.8 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
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

