

Modicon X80 modules platform

X80 I/O modules
HART analog I/O modules

Applications

HART analog inputs



Type of I/O	
Number of channels	
Range	Current
Maximum load impedance	
Operating temperature	
Compatible devices	
Resolution	
Isolation	Between channels
	Between channels and bus
	Between channels and ground
Connection	Directly to the module
Compatibility with pre-wired ABE7	Connection sub-base
	Type of connection sub-base
	Type of preassembled cordsets
Field device support	
HART specification	HART field device compliance
	HART field device connection
	HART I/O mapping

Isolated analog inputs with HART	
8	
4-20 mA	
–	
0...60°C/32...140°F	
BMEP58 processor, BMEXBP000(H) Ethernet + X-bus backplanes, 140NOC78000 Quantum Ethernet DIO module	
15 bits + sign	
1000 V ~ for 1 minute	
1400 V ~ for 1 minute	
1400 V ~ for 1 minute	
Via BMXFTB200 20-way caged, screw clamp, or spring-type removable terminal block 8-channel sub-base for direct connection of 8 current/voltage inputs	
ABE7CPA02/03/31	
BMXFTA1522/3022 (1.5 or 3 m/4.92 or 9.84 ft)	
2-wire/4-wire	
HART V5, V6, V7	
Point-to-point	
Yes	

References

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HART analog outputs



Isolated analog outputs with HART	
4	
4-20 mA	
600 Ω (0-20 mA)	
0...60°C/32...140°F	
BMEP58 processor, BMEXBP000(H) Ethernet + X-bus backplanes, 140NOC78000 Quantum Ethernet DIO module	
15 bits + sign	
1000 V ~ for 1 minute	
1400 V ~ for 1 minute	
1400 V ~ for 1 minute	
Via BMXFTB200 20-way caged, screw clamp, or spring-type removable terminal block 4-channel sub-base for direct connection of 2/4 current/voltage outputs	
ABE7CPA21	
BMXFCA150/300/500 (1.5, 3, or 5 m/4.92, 9.84, or 16.4 ft)	
2-wire/4-wire	
HART V5, V6, V7	
Point-to-point	
Yes	

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