

Price\* : 7733.00 USD



### Main

Range of product	Modicon Quantum automation platform
Product or component type	Intrinsically safe analog output module
Software designation	Unity Pro Concept V2.2 and above ProWORX

### Complementary

Product destination	In conjunction with products for zone 20, 21 or 22
Analogue output number	8
Analogue output range	0...20 mA 0 to 20000 points 0...25 mA 0 to 25000 points 4...20 mA 15 bits, 0 to 16000 points 4...20 mA 15 bits, 0 to 4095 points
Loop resistance	$\leq 500$ Ohm
Absolute accuracy error	$\pm 0.2$ % of full scale at 77 °F (25 °C)
Accuracy drift according to temperature	40 ppm/°C $\leq 70$ ppm/°C
Linearity	$\pm 1$ LSB
Update time	4 ms
Setting time	1 ms to $\pm 0.1$ % of the final value
Isolation between channels and bus	1780 Vrms for 60 s AC
Fault type	Open circuit 4...20 mA
Power dissipation in W	12.5 W
Hot swapping fallback	Not allowed per intrinsic safety standards
Protection type	Internal fuse
Marking	CE II1 G/D-EEx ia IIC
Bus current requirement	2.5 A
Module format	Standard

Product weight	0.66 lb(US) (0.3 kg)
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## Environment

Protective treatment	Conformal coating Humiseal 1A33
Standards	UL 508 EN 50014 EN 50281-1-1 EN 50284 EN 50039 EN 50020 CSA C22.2 No 142 Directive ATEX 94/9/EC
Dust zone	Outside zone
Product certifications	SIRA 02ATEX2345X Hazardous location class 1, division 1 groups A, B, C FM Class 1 Division 2 C-Tick.1
Resistance to electrostatic discharge	4 kV contact conforming to IEC 801-2 8 kV on air conforming to IEC 801-2
Resistance to electromagnetic fields	9.14 V/yd (10 V/m) 80...2000 MHz conforming to IEC 801-3
Ambient air temperature for operation	32...140 °F (0...60 °C)
Ambient air temperature for storage	-40...185 °F (-40...85 °C)
Relative humidity	95 % without condensation
Operating altitude	<= 16404.2 ft (5000 m)

## Ordering and shipping details

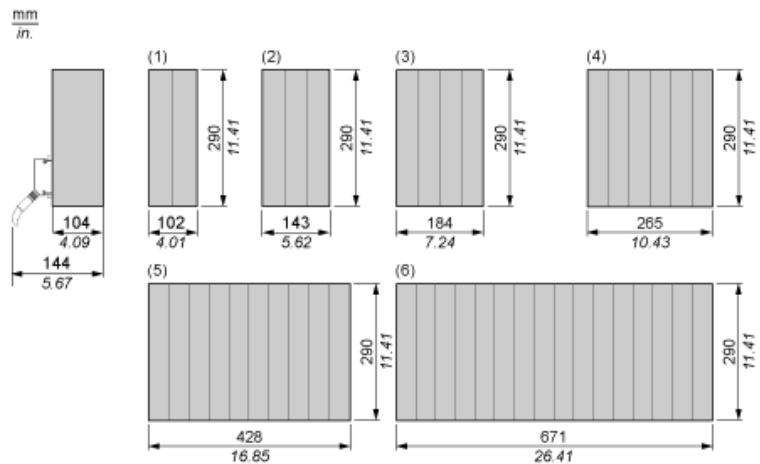
Category	18155 - QUANTUM I/O & POWER SUPPLIES
Discount Schedule	PC21
GTIN	00785901816089
Nbr. of units in pkg.	1
Package weight(Lbs)	2.21
Returnability	N
Country of origin	US

## Contractual warranty

Warranty period	18 months
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Racks for Modules Mounting

Dimensions of Modules and Racks



- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

Intrinsically Safe Analog Output Module

Cenelec Certified Wiring Diagram

Notes related to CSA certification for this module.

Note 1. Entry parameters per channel:  
 $V_{oc} = 29.42 \text{ V}$   
 $I_{sc} = 93 \text{ mA}$   
 $C_d = 71 \text{ nF}$   
 $L_d = 2.0 \text{ mH}$

Note 2. Maximum non-hazardous area voltage must not exceed 250 V.

Note 3. Install in accordance with Canadian Electrical Code, Part I for installation in Canada.

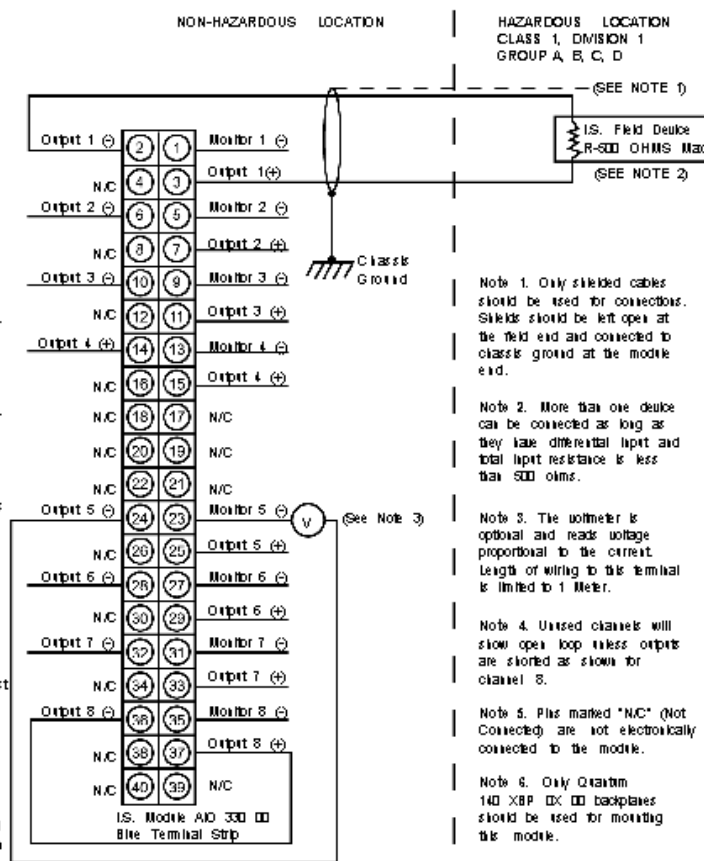
Note 4. Install in accordance with the NEC (ANSI/NFPA 70) and ANSISA RP 12.6 for installation in the United States.

Note 5. To maintain intrinsic safety, shield for each cable must be grounded and must extend as close to the terminals as possible.

Note 6. Intrinsically Safe (I.S.) cables of one module must be routed separately from I.S. cables of another module.

Note 7. I.S. devices when connected to I.S. terminals must satisfy the following conditions:  
 $V_{oc} < V_{max}$   
 $I_{sc} < I_{lim}$   
 $C_d > C_c + C_{cable}$   
 $L_d > L_c + L_{cable}$

Note 8. This module is certified as a component for mounting in a suitable enclosure where the suitability of the final combination is subject to acceptance by CSA or an inspection authority having the jurisdiction.



(SEE NOTE 1)  
 I.S. Field Device  
 R-500 OHMS Max  
 (SEE NOTE 2)

Note 1. Only shielded cables should be used for connections. Shields should be left open at the field end and connected to classic ground at the module end.

Note 2. More than one device can be connected as long as they have differential input and total input resistance is less than 500 ohms.

Note 3. The voltmeter is optional and reads voltage proportional to the current. Length of wiring to this terminal is limited to 1 Meter.

Note 4. Unused channels will show open loop unless outputs are shorted as shown for channel 8.

Note 5. Plus marked "N/C" (Not Connected) are not electronically connected to the module.

Note 6. Only Quantum 140 XBP 0X 00 backplates should be used for mounting this module.

31001364 Rev 00 140 AIO 330 00 Wiring Diagram

Product Life Status

END OF COMMERCIALIZATION