

Newport Digital Indicator Controllers

ORDERING INFORMATION

To Order—Insert Number Code for Each Letter to Select Catalog Number.
Order Example: Q2001-CVR6

A	B	C	D	E	F
A Display Resolution and Case Style					
Q2	±1999 Counts (3½-digits)				
Q3	±1999 with "Infinity" Family Bezel and Adapter*				
Q9	±9999 Counts (4-digits)				
Q8	±9999 with "Infinity" Family Bezel and Adapter*				
B Display Type and Meter Power					
0	LED, 120 VAC (49/440 Hz) (BQ20 or BQ90)				
2	LED, 240 VAC (49/440 Hz) (BQ22 or BQ92)				
4	LED, 9–32 VDC (isolated) (BQ24 or BQ94)				
6	LED, 5 VDC** (BQ26 or BQ96)				
8	LED, 24 VAC (BQ28 or BQ98)				
A	LED, 26–56 VDC (isolated) (BQ2A or BQ9A)				
**Not available with AC AVG or True RMS inputs					
C Analog Output Adders					
Max one analog output in addition to recorder output					
0	±1 or ±2 V recorder output, non-isolated				
1	0–5 VDC, non-isolated (BA01)				
2	0–10 VDC, non-isolated (BA01)				
3	0–1 mA, source or sink, non-isolated (BA01)				
4	4–20 mA, source or sink, non-isolated (BA01)				
6	4–20 mA, isolated (BA03)				
D Control Output Adders					
0	None				
1	Dual-Setpoint 10A Relay (BDT1)				
4	BCD (BDD2)				
5	Single-Setpoint 10A Relay (BDS1)				
E Signal Conditioning Input Adders					
<input type="checkbox"/>	Select from Input Table				
F Green LEDs for Display					
G	Green				
0	None				

INPUT TABLE

Code	Q2000/Q3000	Q8000/Q9000
DC Voltage Input		
AVR1	±199.9 mV	±99.99 mV
AVR2	±1.999V	±999.9 mV
AVR3	±19.99V	±9.999V
AVR4	±199.9V	±99.99V
DC Current Input		
BCR1	±19.99 µA	±9.999 µA
BCR2	±199.9 µA	±99.99 µA
BCR3	±1.999 mA	±999.9 µA
BCR4	±19.99 mA	±9.999 mA
BCR5	±199.9 mA	±99.99 mA
BCR6	±1.999A	±999.9 mA
AC AVG Voltage Input		
CVR2	199.9 mV	99.99 mV
CVR3	1.999V	999.9 mV
CVR4	19.99V	9.999V
CVR5	199.9V	99.99V
CVR6	650V	650.0V
AC AVG Current Input		
DCR1	19.99 µA	9.999 µA
DCR2	199.9 µA	99.99 µA
DCR3	1.999 mA	999.9 µA
DCR4	19.99 mA	9.999 mA
DCR5	199.9 mA	99.99 mA
DCR6	1.999A	999.9 mA
DCR7-(*)	(1) 5A = 1000, (2) 5A = 1500, (3) 5A = 2000, (4) 5A = 300, (5) 5A = 500	

Quanta® Standard Features

- Field Selectable Input Ranges
- Recorder Analog Output
- Front-Panel Accessible Span Adjustment
- Bright, 0.56" (14.2 mm) LED Display
- Display Hold and Test
- Screw-Terminal Barrier Strip
- Optional Relay Outputs
- 1/8 DIN Case



Options

- Analog Output for User-Selected Span
- Single-Setpoint 10A SPDT Relay
- Dual-Setpoint with Two 10A SPDT Relays
- Parallel BCD Output, Isolated

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INPUT TABLE (CONT'D)

Code	Q2000/Q3000	Q8000/Q9000
True-RMS Voltage Input		
FVR2	199.9 mV	99.99 mV
FVR3	1.999V	999.9 mV
FVR4	19.99V	9.999V
FVR5	199.9V	99.99V
FVR6	650V	650.0V
True-RMS Current Input		
GCR1	19.99 µA	9.999 µA
GCR2	199.9 µA	99.99 µA
GCR3	1.999 mA	999.9 µA
GCR4	19.99 mA	9.999 mA
GCR5	199.9 mA	99.99 mA
GCR6	1.999A	999.9 mA
GCR7-(*)	(1) 5A = 1000, (2) 5A = 1500, (3) 5A = 2000, (4) 5A = 300, (5) 5A = 500	
Frequency/Rate Input (100 mV Hysteresis):		
H	1000 Hz = 1000	1000 Hz = 0–9999
Type J Thermocouple Input		
JDC1	-40 to +760°C	-40.0 to +760.0°C
JDF1	-40 to +1400°F	-40.0 to +999.9°F
Type K Thermocouple Input		
KDC1	-40 to +1260°C	-40.0 to +999.9°C
KDF1	-40 to +1999°F	-40.0 to +999.9°F
Type T Thermocouple Input		
TDC1	-184 to +371°C	-184.0 to +371.0°C
TDF1	-300 to +700°F	-300.0 to +700.0°F
RTD (Pt 100) Input Alpha = 0.00385		
MDC1	-200 to +830°C	-200.0 to +830.0°C
MDF1	-328 to +1526°F	-328.0 to +999.9°F
RTD Input, High Resolution Alpha = 0.00385		
RDC1	-199.9 to +199.9°C	Not available with Q8/Q9
RDF1	-199.9 to +199.9°F	Not available with Q8/Q9
3-Wire Ratio Potentiometer Input		
NPR1	1000 = 1 kOhm	9999 = 1 kOhm
NPR2	1000 = 5 kOhm	9999 = 5 kOhm
2- or 4-Wire Resistance Input		
ORR1	19.99 Ohm	Not available with Q8/Q9
ORR2	199.9 Ohm	Not available with Q8/Q9
ORR3	1999 Ohm	Not available with Q8/Q9
ORR4	19.99 kOhm	Not available with Q8/Q9
Process Signal Input		
P	4–20 mA = 0–100.0	4–20 mA = 0–99.99
Process Signal Input Excitation set to 15 VDC		
E	4–20 mA = 0–100.0	4–20 mA = 0–99.99
Strain-Gage/Microvolt Input Excitation set to 10 VDC (30 mA max)		
S	±100 mV = ±100.0	±100 mV = ±99.99