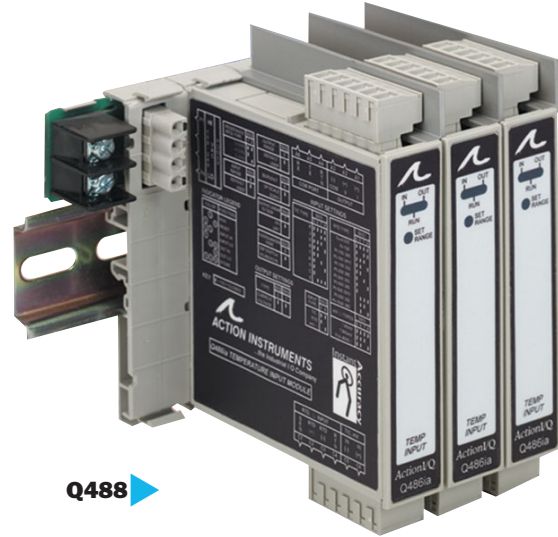


Action Instruments™ IQ Signal Conditioners

- Multi-Channel DC, RTD, T/C Conditioners—Lower Cost/Point
- Ideal for Large Numbers of Data Points
- Extreme Operating Temperature—from -40 to 80 °C
- SnapLoc Terminal Blocks
- Optional I/Q Rail Power Bus—Saves Installation Time
- Interlocking Modules—Solid, Reliable Mounting

SPECIFICATIONS

Isolation:	From 1800 to 4000 VDC, input to output and channel to channel
Humidity:	15-90% @ 45 °C
Operating Temperature:	40 to 80 °C (Q5XX Series) 0 to 55 °C (Q4XX Series)
Power:	12 to 35 VDC output loop (Q5XX Series) 18 to 30 VDC output common (Q4XX Series)
Response Time:	100 mSec (10-90%) typical
Approvals:	UL508, CSA C22.2, CE


Q488

 SIGNAL
CONDITIONERS

HOW TO ORDER—Select the unit with the output of your choice and then add the code that identifies the input range to satisfy your application. Example: Q510-4004 is a 4-channel RTD Input, 2-wire transmitter, with a 0–250 °C range and 4–20 mA output.

DC ORDERING INFORMATION

4-20 mA	Q500
1-Channel	-1000
2-Channel	-2000
4-Channel	-4000

DC ORDERING INFORMATION

Input Range	Q501 (1 Ch)	Q501 (2 Ch)
4–20 mA	-1000	-2000
0–10V	-1003	-2003
0–5V	-1004	-2004
1–5V	-1005	-2005

Q520 (T/C) ORDERING INFORMATION

Temp Range	Type J	Type K	Type T
0–500 °F	-0001	-0004	-0007
0–1000 °F	-0002	—	—
0–2000 °F	—	-0005	—
0–250 °C	—	—	-0008
0–500 °C	-0003	—	—
0–1000 °C	—	-0006	—

ORDERING INFORMATION—ACCESSORIES

Mounting Hardware	
MD02	TS32 DIN Rail (2m) Slotted (G-rail)
MD03	TS35 x 7.5 DIN Rail (2m) Slotted (H-rail)
IQRL-D002	IQ Rail for 2 Modules (Q488 only)
IQRL-D004	IQ Rail for 4 Modules (Q488 only)
IQRL-D008	IQ Rail for 8 Modules (Q488 only)

ACTION I/Q SIGNAL CONDITIONERS

Cat #	Input Type	Range	Output	Channels	Circuit Type
Q500	DC Current	0–20/4–20 mA	0–20/4–20 mA	1, 2 or 4	Input Loop Powered
Q501	DC Current DC Volts	4–20 mA 0–5V, 0–10V, 1–5V	4–20 mA	1 or 2	Isolated 2-Wire Transmitter
Q510	3-wire RTD Pt100Ω	See Below	4–20 mA	2 or 4	2-Wire Transmitter
Q488	TC (B, C, E, J, K, N, R, S, T) Pt RTD (100, 200, 500, 1000), Cu RTD (9), Ni RTD (120), 90mV, 900mV, 4000Ω	-270 to +1370 °C (type K) -200 to +850 °C (Pt 100)	0–1mA, 4–20mA, 0–5V, 0–10V	1	Isolated 2-Wire Transmitter (2, 3 or 4-wire input)
Q520	T/C (J,K,T)	See Blow	4–20 mA	2	Isolated 2-Wire Transmitter
Q438	Potentiometer	100Ω to 100kΩ	0–1mA,	1	3-wire to 2-Wire Transmitter
Q448	Bridge	±5mV to ±200mV	4–20mA, 0–5V, 0–10V	1	Isolated 4-wire to 2-Wire Transmitter
Q478	Frequency	2Hz – 10kHz	0–10V	1	Isolated 2-Wire Transmitter

T/C cold junction compensation (standard). Output linear to mV input.

Q510 (RTD) ORDERING INFORMATION

Temp Range	Q510 (2-Ch)	Q510 (4-Ch)
0–100 °C	-0001	-4001
0–150 °C	-0002	-4002
0–200 °C	-0003	-4003
0–250 °C	-0004	-4004
0–500 °C	-0005	-4005
0–200 °F	-0006	-4006
0–300 °F	-0007	-4007
0–400 °F	-0008	-4008
0–500 °F	-0009	-4009
0–1000 °F	-0010	-4010

Other inputs & AC powered modules also available.