

DIN Rail Mount Bridge Input Signal Conditioners

DRC-4710/4720



- DIN Rail Mount
- Bridge Input (Load Cell, Strain Gage) or Voltage Input
- 0 to 10 Vdc (DRC-4710) or 4 to 20 mA (DRC-4720) Output
- Economical

The DRC-4710 and DRC-4720 DIN rail mount signal conditioners are self-contained DC powered modules designed for bridge input (load cell, strain gage) or voltage input (not connected to a bridge, excitation supply not used). These signal conditioners contain a precision instrumentation amplifier, filtered output and a built-in 10V excitation supply capable of driving a 350 Ω bridge. The 0 to 30 mV input range makes the DRC-4710 and DRC-4720 compatible with most strain gage based load cell or pressure transducer outputs. Two models are available, one with 0 to 10 Vdc output (DRC-4710), and the other with 4 to 20 mA output (DRC-4720). Connections are made via easily accessible screw terminal blocks. Zero and Span adjustment potentiometers are located externally as well for easy access.

Specifications

INPUT

Input Range: 0 to 10 mV, 0 to 20 mV, 0 to 30 mV (dip switch selectable)

Power: 18 to 26 Vdc (350 Ω Bridge)

Linearity: ±0.01%

Zero Adjust: 20% max output

Temperature Coefficient: 0.05%/°C

Input Offset Voltage: ±70 μV

Input Offset Voltage Temperature Coefficient: 0.7 μV/°C

Common Mode Voltage: 0 to 5V

Common Mode Rejection (DC): 100 dB

Input Noise: 0.3 μV pp typ (0.1 to 10 Hz)

OUTPUT

Output Range:

DRC-4710: 0 to 10 Vdc

DRC-4720: 4 to 20 mA

Load Current (DRC-4710): 5 mA max

Compliance Voltage (DRC-4720): 5.5V max

Loop Resistance (DRC-4720): 250 Ω max

Frequency Response (2-Pole Filter): DC to 10 Hz Total RMS

Gain Temperature Coefficient: 0.007%/°C

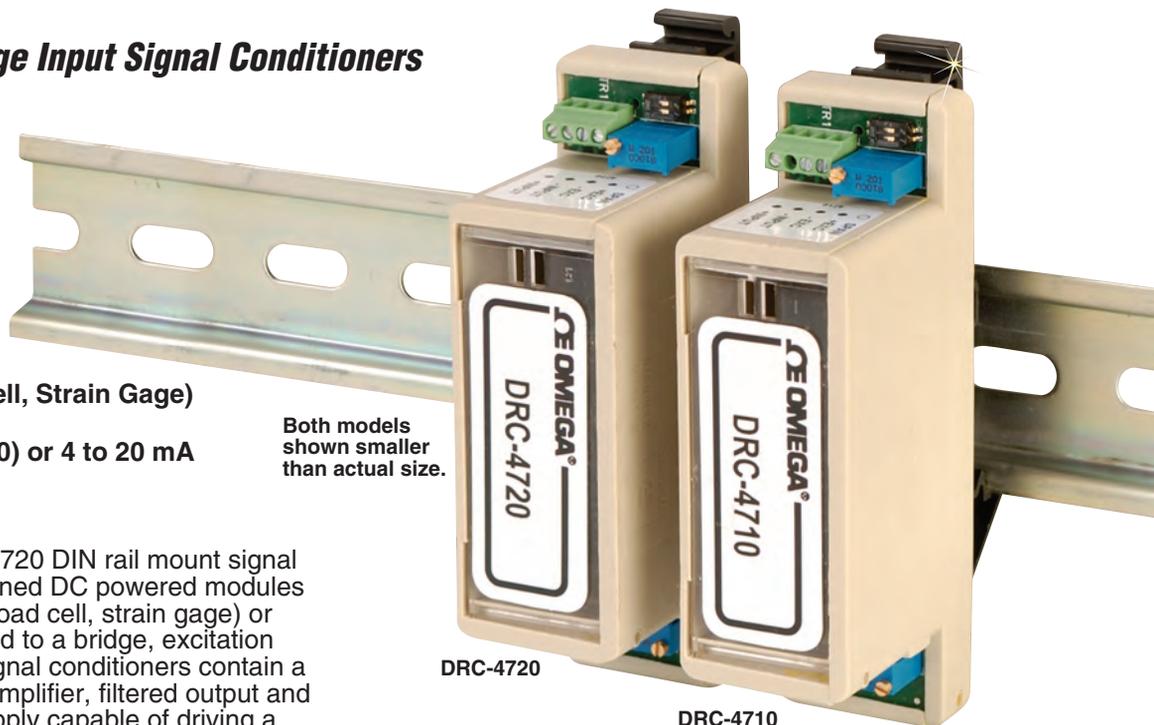
BRIDGE EXCITATION SUPPLY

Fixed Output: 10V ±1.0%

Temperature Coefficient: 0.05%/°C

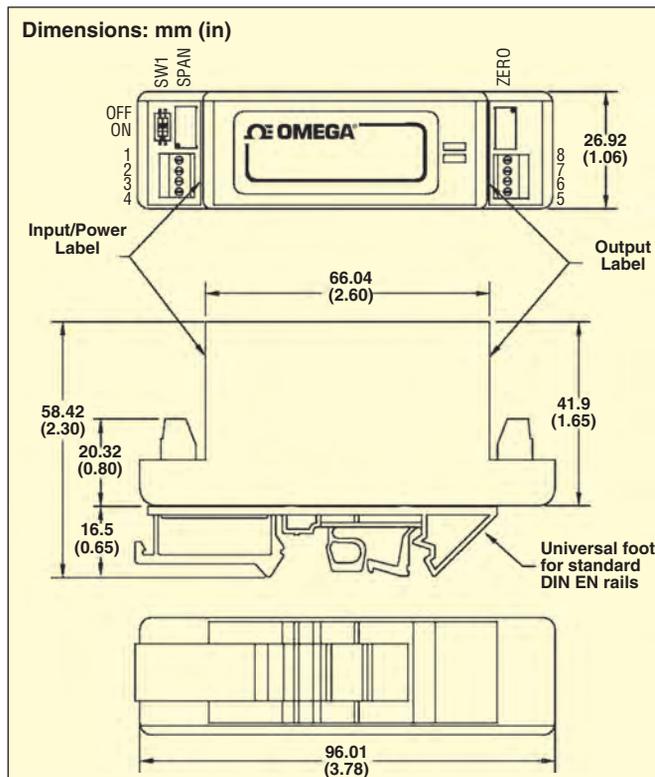
Load Current: 30 mA max

Both models shown smaller than actual size.



DRC-4720

DRC-4710



GENERAL

Power: 18 to 26 Vdc

Input Current (One 350 Ω Bridge):

DRC-4710: 40 mA

DRC-4720: 55 mA

Operating Ambient: 0 to 55°C (32 to 131°F)

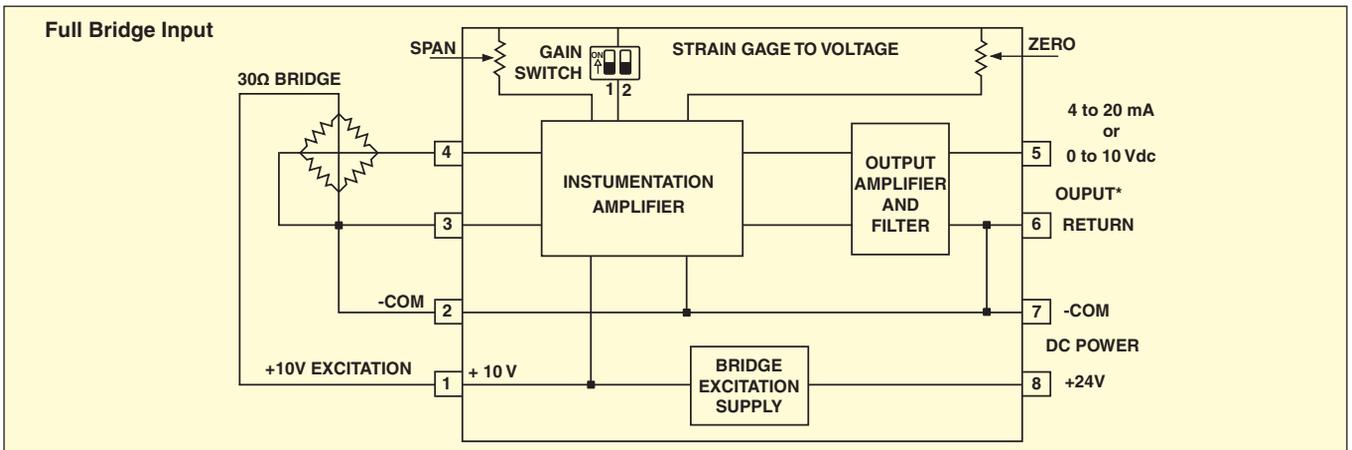
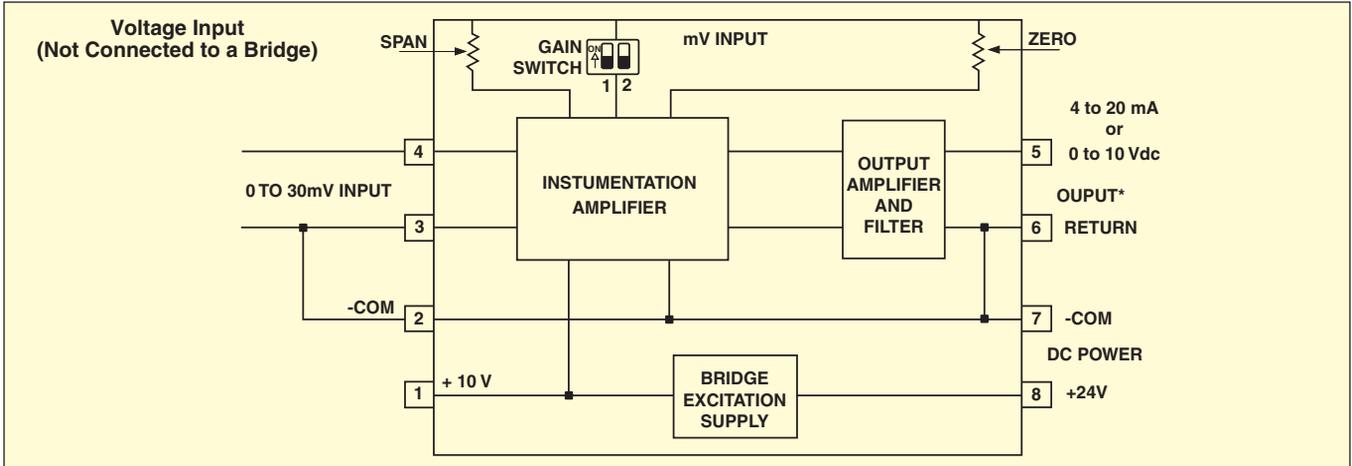
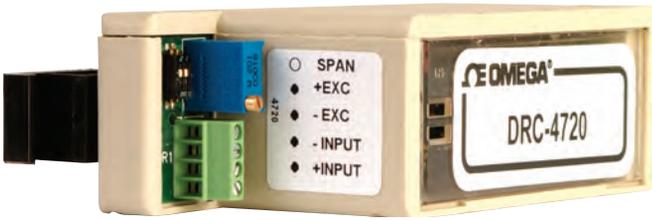
Storage Temperature: -40 to 80°C (-40 to 176°F)

Dimensions: 96 H x 27 W x 42 mm D

(3.78 x 1.06 x 1.65")

Weight: 85 g (3 oz)

Detail of input/output connections for DRC-4720 shown actual size.



*DRC-4710 (0 to 10 Vdc output)
DRC-4720 (4 to 20 mA output)

IN STOCK FOR FAST DELIVERY!



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order.

To Order Visit omega.com/drc4710_4720 for Pricing and Details

Model No.	Description
DRC-4710	Bridge input signal conditioner with 0 to 10 Vdc output
DRC-4720	Bridge input signal conditioner with 4 to 20 mA

Accessories

Model No.	Description
iDRN-PS-1000	Power supply (switching), 95 to 240 Vac Input, 24 Vdc output @ 850 mA
RAIL-35-2	35 mm (1.4") DIN rail, 2 m (6.6') length
RAIL-35-1	35 mm (1.4") DIN rail, 1 m (3.3') length

Comes complete with operator's manual.

Ordering Example: DRC-4710, bridge input signal conditioner with 0 to 10 Vdc output, iDRN-PS-1000 power supply, RAIL-35-2 mounting rail, and OMEGACARE 1-year extended warranty for DRC-4710.