

OM-19

Product Data Sheet

OM-19-2

Load Cell Central DIN-Rail Load Cell Amplifier

SUPPLY	ACCURACY	EXCITATION	OUTPUT
24 +/- 4 VDC	0.05%	3 / 5 / 10 VDC	+/-10 V / 0-10 V / 4-20 mA

Load Cell Central OM-19-2 is the DIN-rail version of the OM-19 analog signal conditioner. It powers and conditions strain-gage load-cell signals for a voltage or current input in the connected control or indicating system.

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VERIFIED TECHNICAL DATA

Product model	OM-19-2
Product version	DIN-rail version
Power supply	24 +/- 4 VDC
Accuracy class	0.05%
Excitation voltage	3 / 5 / 10 VDC
Span adjustment	0.15 to 12 mV/V
Voltage output	+/-10 VDC or 0 to 10 VDC
Current output	4 to 20 mA

Only values supported by the cited public manufacturer documents are included.

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ADDITIONAL VERIFIED DATA

Voltage-output load	$\geq 2000 \text{ ohm}$
Current-output load	$\leq 500 \text{ ohm}$
Capacitive load	$\leq 1 \text{ nF}$
Operating temperature	0 to +70 C
Maximum supply current	120 mA
Filter / bandwidth	10 Hz / $\leq 20 \text{ kHz}$
Minimum load-cell impedance	80 ohm at 3/5 V; 160 ohm at 10 V

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PRODUCT FUNCTION

Load Cell Central OM-19-2 is a DIN-rail analog signal conditioner for strain-gage load cells. Powered by 24 VDC, it converts the sensor signal to a selectable plus or minus 10 VDC, 0 to 10 VDC, or 4 to 20 mA output.

The amplifier supports four- or six-wire load-cell connections and can operate up to four 350-ohm load cells. Selectable excitation, shunt calibration, span, zero, output, and filtering settings must be checked against the connected load cells and control input before commissioning.

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OFFICIAL APPLICATIONS

- Conditioning a strain-gage load-cell signal for a PLC analog input
- Converting a load-cell signal to a 0 to 10 VDC control-system input
- Converting a load-cell signal to a 4 to 20 mA control-system input
- Summing the signal from up to four 350-ohm load cells
- OEM weighing or force-measurement assemblies that do not require a local display

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OFFICIAL SOURCES

[Open official manufacturer source](#)

[Open official product or document index](#)

AMIKON PRODUCT SUPPORT

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