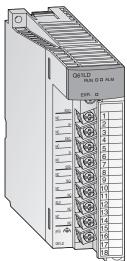
## Load Cell Input Module



## The load cell input module Q61LD can connect load cells

directly to MELSEC Q series programmable controllers. External signal converters are no longer required.

## **Special features:**

- An external signal converter is not required. Man-hours and costs are reduced by using a load cell input module that can be connected directly to a programmable contoller.
- The module achieves a highly accurate measurement with steady data conversion speed that guarantees the accuracy of load cells.
- Enhanced convenience with functions like zero offset, two-point calibration and input signal error detection.

SPECIAL FUNCTION MODULES MELSEC SYSTEM Q			
10	Specifications		Q61LD
00	Analog input (load cell output) po	oints	1
×	Analog input (load cell output)	mV/V	0.0-3.3
CTION	Analog input range (load cell rated output)	mV/V	0.0-1.0 0.0-2.0 0.0-3.0
FUN	Load cell applied voltage		$5$ V DC $\pm 5$ %, Output current 6-wire system (Combination
AL	Digital output		32-bit signed binary, 0–10 0
PECI	Gross weight output (Max. weighing output value)		32-bit signed binary, -99999
S	Zero adjustment range	mV/V	0.0-3.0
	Gain adjustment range	mV/V	0.3-3.2
	Resolution		0-10 000
	Accuracy		Nonlineality: within $\pm 0.01$ %
	Conversion speed	ms	10
	Insulation method		Photocoupler insulation
	I/O points		16

Analog input (load cell output) points		
Analog input (load cell output)	mV/V	0.0–3.3
Analog input range (load cell rated output)	mV/V	0.0-1.0 0.0-2.0 0.0-3.0
Load cell applied voltage		5 V DC $\pm$ 5 %, Output current within 60 mA (Four 350 $\Omega$ load cells can be connected in parallel.) 6-wire system (Combination use of remote sensing method and ratiometric method) or 4-wire system
Digital output		32-bit signed binary, 0–10 000
Gross weight output (Max. weighing output value)		32-bit signed binary, -99999–99999 (Excluding decimal point and unit symbol)
Zero adjustment range	mV/V	0.0–3.0
Gain adjustment range	mV/V	0.3–3.2
Resolution		0-10 000
Accuracy		Nonlineality: within ±0.01 %/FS (Ambient temperature: 25 °C)
Conversion speed	ms	10
Insulation method		Photocoupler insulation
I/O points		16
External connection system		18-point removable terminal block with screws
Applicable wire size	mm <sup>2</sup>	0.3–0.75
Internal power consumption (5 V DC)	A	0.48
Weight	kg	0.17
Dimensions (WxHxD)	mm	27.4x98x90
Order information	Art. no.	229237