F159

WEIGHING INDICATOR
FOR OMRON SYSMAC CJ1/CJ2/NJ



RoHS

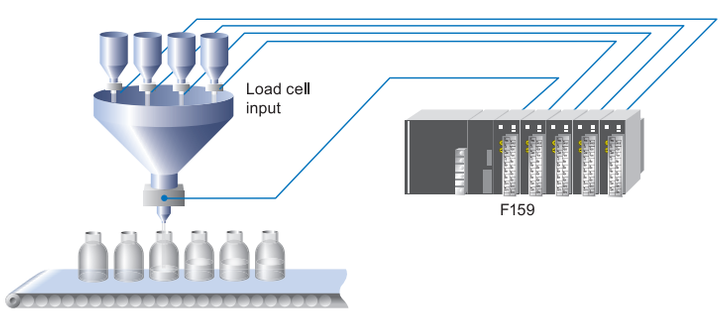
- RoHS-compliant product
- Weighing indicator that can be connected directly to OMRON SYSMAC CJ1/CJ2/NJ bus.
- The measuring data of F159 is seamlessly communicated to OMRON SYSMAC CJ1/CJ2/NJ.
- Weighing command from SYSMAC CJ1/CJ2/NJ is transmitted to F159 without undergoing complicated timing sequence.
- Inter-equipments wiring is greatly simplified.
- With its function blocks and other features, shorter preparation for standard application of sequence controlled programs with high reliability are achieved.
- System development time is shortened and maintenance, modifications and servicing are easy.
- It is much cost effective compared to other conventional measuring system.

Connection with the NJ series

NJ series CPU unit(NJ301/NJ501)	ver 1.06 or later
Sysmac Studio	ver 1.07 or later

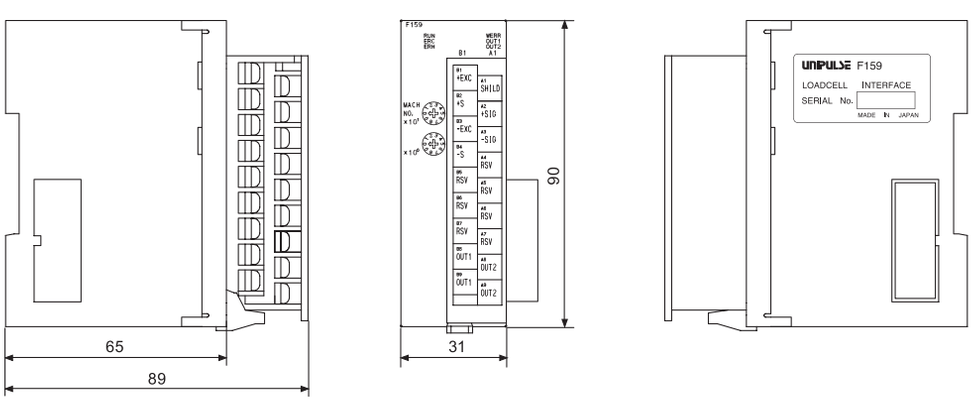
Specifications

ANALOG	Excitation voltage	DC10V ±5% Output current: within 120 mA Remote sense type (Up to 4 350Ω load cells can be connected in parallel.)
	Zero adjustment range	0 to 2mV/V Rough adjustment: Digitally controlled by rough adjustment circuit. Fine adjustment: Auto adjusting method by digital processing.
	Span adjustment range	0.3 to 3.2 mV/V Rough adjustment: Digitally controlled by rough adjustment circuit. Fine adjustment: Auto adjusting method by digital processing.
	Min. input sensitivity	0.3μV/count
	Accuracy	Non-linearity·····within 0.01%/FS (Typ: 0.005%/FS at room temp.) Zero drift·····within 0.2 μV/℃ RTI(Typ:0.15μV/℃) Gain drift·····within 15 ppm/℃ (Typ: 5 ppm/℃)
	Analog filter	Bessel type low-pass filter (-12dB/oct.) Selectable from 2, 4, 6, 8 Hz
	A/D converter	Speed·····500 times/sec Resolution·····24bit
DISPLAY	Status display	RUN : Lights up at normal operation ERC : / ERH : Turns on when an error in initial settings, CPU related error, and unit error is detected. WERR : Lighted when weight error status is ON. OUT1 : Lighted when output 1 is ON. OUT2 : Lighted when output 2 is ON.
GENERAL SPECIFICATIONS	Power Consumption	At 1-350Ω load cell: Approx. 300 mA; At 4-350Ω load cells: Approx. 700 mA (when using 5V system only)
	Operation condition	Temperature····· Operation temperature range: 0 to +55℃ Working temperature range: 0 to +40℃ Storage temperature range: −20 to +75℃ Humidity·····90%RH or less (non-condensing)
	External dimension	31 (W) x 90 (H) x 65 (D) mm (not including protrusions)
	Weight	App. 150 g
ATTACHMENTS	Operation Manual·····1	
CE MARKING CERTIFICATION	EMC Directive EN61131-2	



Auto weighing system for industrial use

External dimension



Unit: mm