F130 DIGITAL INDICATOR FOR OMRON SYSMAC CJ1/CJ2/NJ



RoHS

- RoHS-compliant product
- Digital indicator allowing direct connection to the bus of OMRON SYSMAC CJ1/CJ2/NJ
- 3000 times/sec high-speed processing
- Simultaneous hold function
  The peak, bottom, and average values in the detection section can be held simultaneously.
- Completely seamless communication between CJ1/CJ2/NJ and F130.
- Remarkable simplification of equipment wiring.
- Reduce development duration of measurement system, modification, and maintenance.
- Cost advantages.
- Equivalent input calibration function
  Calibration can be carried out by only inputting the sensor's rated output without using the actual load.

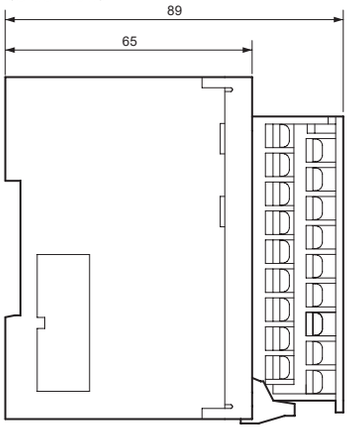
Specifications

ANALOG	Excitation voltage	DC10V±5%, output current within 30mA (single 350Ω sensor) or DC2.5V±5%, output current within 30mA (single 120Ω sensor or four 350Ω sensors in parallel)
	Signal input range	−3.0 to +3.0mV/V
	Auuracy	Non-linearity....Within 0.02%/FS ±1digit (at a 3.0mV/V input) Zero drift.....Within 0.5μV/℃ RTI Gain drift.....Within 25ppm/℃
	Analog filter	Low-pass filter (−6dB/oct.) Selectable from 3, 10, 30, 100, 300, 1kHz
	A/D converter	Speed.....3000times/sec. Resolution...24bit 1/10000 to 1.0mV/V
DISPLAY	Status LED	RUN (Green) ....Turns on when Normal operation ERC (Red) .....Blinks when an alarm occurs or turns on when an error occurs in the F130. ERH (Red) .....Turns on when an alarm occurs in data exchange with the CPU unit.
DM (DATA MEMORY) AREA	Setting item	Excitation voltage, Minimum scale division, Analog filter, Digital filter count, Digital offset, Sensor rated output value, Sensor rated capacity value
RELAY AREA	F130→CPU Measurement value (−32768 to 32767), Data update counter, Peak hold value (In calibration mode: sensor rated output value), Bottom hold value (In calibration mode: sensor rated capacity value), Average value (In calibration mode: sensor output value at the Zero calibration point), Average count (In calibration mode: calibration error number), Measurement value overflow, A/D input range over	
	CPU→F130 Mode selection (Normal operation mode•Calibration mode), Equivalent input calibration, Actual load calibration, Zero calibration, Survival confirmation, Hold value clear, Hold (section specification), Digital zero	
HOLD	Peak, Bottom, Average (Simultaneous hold)	
GENERAL SPECIFICATIONS	Consumption current	DC5V Approx.0.46A (At excitation voltage DC10V, single 350Ω sensor)
	Operation condition Storage temperature:	Temperature Operation temperature: 0 to +55℃ Accuracy compensation applicable temperature: 0 to +40℃ −20 to +75℃ Humidity 90% or less (non-condensing)
	External dimension	31 (W) ×90 (H) ×65 (D) mm (not including protrusions)
	Weight	Approx.160g
ATTACHMENT	Operation manual.....1	

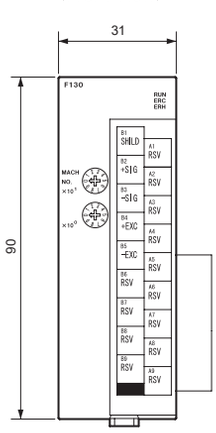
Connection with the NJ series
NJ series CPU unit(NJ301/NJ501) ver 1.06 or later
Sysmac Studio ver 1.07 or later

External dimension

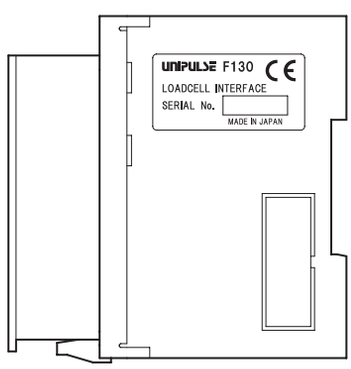
(Side View)



(Front View)



(Side View)



Unit: mm