

## INF1 SINGLE SENSOR WEIGHT TRANSMITTER AND INDICATOR (U.S. AND METRIC)

### FEATURES & BENEFITS

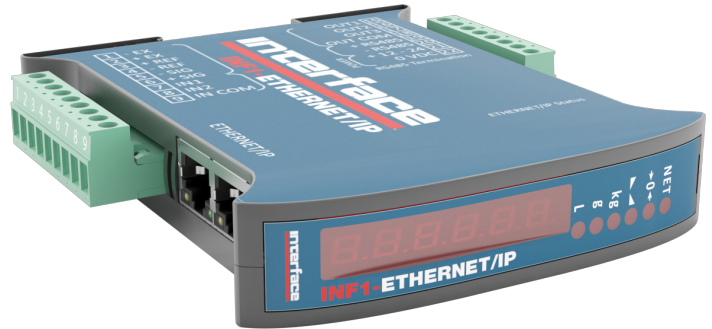
Connection to:

- PLC via analog output or fieldbus
- PC/PLC via RS485 (Up to 99 instruments with line repeaters, up to 32 without line repeaters)
- Remote display via RS485
- 8 load cells in parallel
- Digital Filter to reduce the effects of weight oscillation
- Theoretical calibration and real calibration with the possibility of weight linearization up to 5 points
- Tare weight zero setting
- Automatic zero setting at power on
- Semi-automatic tare (net/gross weight) and predetermined tare
- Semi-automatic zero
- Direct connection between RS485 and RS232 without converter

### SPECIFICATIONS

Parameter	
Power Supply and Consumption	12-24 VDC $\pm 10\%$ ;5W
Number of Load Cells	up to 8 (350 ohm) 4-6 wires
Load Cells Supply	5 VDC/240 mA
Linearity	<0.01% Full Scale
Linearity of Analog Output	<0.01% Full Scale
Thermal Drift	<0.0005% Full Scale/ $^{\circ}$ C
Thermal Drift of Analog Output	<0.003% Full Scale/ $^{\circ}$ C
A/D Converter	1 Channel - 24 bit (16000000 Points) - 4.8 kHz
Divisions (Range $\pm 10$ mV , Sensitivity 2mV/V)	$\pm 999999$ 0,01 $\mu$ V/d
Measure Range	$\pm 39$ mV
Load Cell Sensitivity	$\pm 7$ mV/V
Conversions Per Second	300/s
Display Range	$\pm 999999$
Decimals	0-4
Display Increments	x1 x2 x5 x10 x20 x50 x100
Digital Filter	10 levels
Digital Conversion Rate	5 - 300 Hz
3 Relay Logic Outputs	115 VAC/150 mA
2 Optoisolated Logic Inputs	5 - 24 VDC PNP
Serial Ports	RS485
Baud Rate	2400, 4800, 9600, 19200, 38400, 115200 (Bit/s)
Analog Output	16 bit = 65535 Divisions. 0-20 mA; 4-20 mA (Up to 300 ohm) 0-10 V; 0-5 V; $\pm 10$ V; $\pm 5$ V (min 10k ohm)
Maximum Humidity (Condensation Free)	85 %
Storage Temperature	-30 $^{\circ}$ C +80 $^{\circ}$ C
Working Temperature	-20 $^{\circ}$ C +60 $^{\circ}$ C
3 Relay Digital Outputs	30 VAC, 60 VDC/150 mA

### STANDARD CONFIGURATION

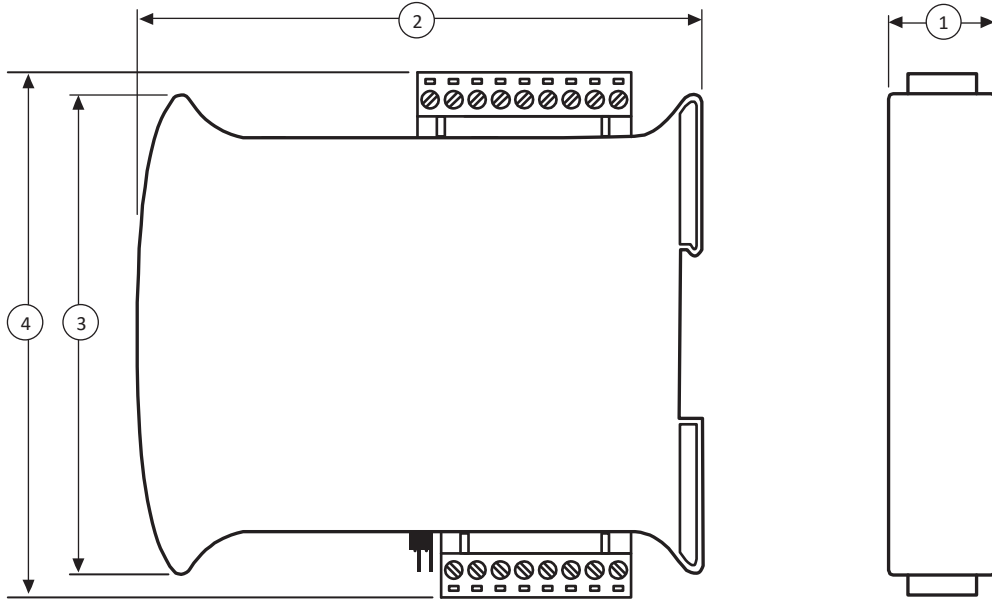


MODEL INF1-ETHERNET/IP (Shown)

- RS485 serial port for communication via Modbus RTU protocol, ASCII bidirectional or continuous one way transmission
- 3 relay logic outputs controlled by setpoint values or via protocols
- 2 optoisolated PNP logic inputs: status reading via serial communication protocols
- 1 load cell dedicated input
- Back panel mounting on Omega/DIN rail
- Dimensions: 25x115x120 mm
- Six-digit red LED semi-alphanumeric display (8 mm height), 7 segment
- Six indicator LED
- Four buttons for system calibration
- Extractable screw terminal boards

*U.S. dimensions and capacities are provided for conversion only. Standard products have International System of Units (SI) capacities and dimensions.*

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

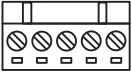
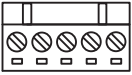
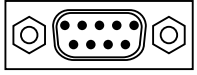


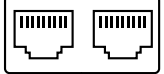
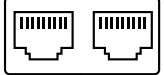
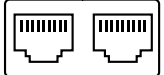
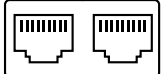
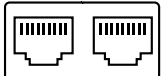


### DIMENSIONS

See Drawing	Metric (mm)	U.S. (in)
(1)	22.5	0.89
(2)	120	4.72
(3)	101	3.98
(4)	111	4.37

## INF1 SINGLE SENSOR WEIGHT TRANSMITTER AND INDICATOR (U.S. AND METRIC)

### FIELDBUS OPTIONS

Port	Model	Description
	INF1-RS485	<b>RS485</b> serial port. Baud rate: 2400, 4800, 9600, 19200, 38400, 115200 (bit/s).
	INF1-Analog	Optoisolated 16 bit <b>analog output</b> . Current: 0-20 mA, 4÷20 mA (up to 300 Ω). Voltage: 0-10 V, 0-5 V, ±10 V, ±5 V (min 10 kΩ). Equipped with RS485 serial port.
	INF1-CANopen	<b>CANopen</b> port. Baud rate: 10, 20, 25, 50, 100, 125, 250, 500, 800, 1000 (kbit/s). The instrument works as slave in a synchronous CANopen network. Equipped with RS485 serial port.
	INF1-DeviceNet	<b>DeviceNet</b> port. Baud rate: 125, 250, 500 (kbit/s). The instrument works as slave in a DeviceNet network. Equipped with RS485 serial port.
	INF1-CC-Link	<b>CC-Link</b> port. Baud rate: 156, 625, 2500, 5000, 10000 (kbit/s). The instrument works as Remote Device Station in a CC-Link network and occupies 3 stations. Equipped with RS485 serial port.
	INF1-PROFIBUS DP	<b>PROFIBUS DP</b> port. Baud rate: up to 12 Mbit/s. The instrument works as slave in a Profibus DP network. Equipped with RS485 serial port.
	INF1-Modbus/TCP	<b>Modbus/TCP</b> port. Type: RJ45 10Base-T or 100Base-TX (auto-sensing). The instrument works as slave in a Modbus/TCP network. Equipped with RS485 serial port.
	INF1-Ethernet TCP/IP	<b>Ethernet TCP/IP</b> port. Type: RJ45 10Base-T or 100Base-TX (auto-sensing). The instrument works in an Ethernet TCP/IP network and it is accessible via web browser. Equipped with RS485 serial port.
	INF1-Ethernet/IP	<b>2x Ethernet/IP</b> ports. Type: RJ45 10Base-T or 100Base-TX (auto-sensing). The instrument works as adapter in an Ethernet/IP network. Equipped with RS485 serial port.
	INF1-PROFINET IO	<b>2x PROFINET IO</b> ports. Type: RJ45 100Base-TX. The instrument works as device in a Profinet IO network. Equipped with RS485 serial port.
	INF1-EtherCAT	<b>2x EtherCAT</b> ports. Type: RJ45 10Base-T or 100Base-TX (auto-sensing). The instrument works as slave in an EtherCAT network. Equipped with RS485 serial port.
	INF1-POWERLINK	<b>2x POWERLINK</b> ports. Type: RJ45 10Base-T or 100Base-TX (auto-sensing). The instrument works as slave in a Powerlink network. Equipped with RS485 serial port.
	INF1-SERCOS III	<b>2x SERCOS III</b> ports. Type: RJ45 10Base-T or 100Base-TX (auto-sensing). The instrument works as slave in a Sercos III network. Equipped with RS485 serial port.