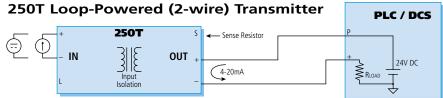
Flat Pack Series

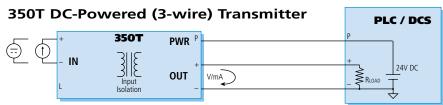


PLC / DCS

≷ RLOAD







DC Voltage and DC Current Input

These models convert sensor inputs to proportional process current or voltage output signals.

Models

250T: Loop-powered transmitter series

350T: DC-powered transmitter series

450T: AC-powered transmitter series

Input Ranges

- DC voltage, ±100mV to ±100.0V DC
- DC current,0 to 20mA (10 ohm input load)

Output Ranges

■ DC current: 4 to 20mA

■ DC voltage: 0 to 5V or 0 to 10V

Power Requirements

- 250T: 12 to 50V DC @ 20mA (loop-powered)
- 350T: DC voltage source (see table below)

 Output range
 Power

 4 to 20mA
 10 to 36V DC @ 30mA

 0 to 5V
 10 to 36V DC @ 9mA

 0 to 10V
 12.5 to 36V DC @ 9mA

■ 450T: 115V or 230V AC, ±10%, 50 to 60Hz

 Output range
 Power

 4 to 20mA
 115V AC @ 0.050A

 4 to 20mA
 230V AC @ 0.025A

 0 to 5V, 0 to 10V
 115V AC @ 0.020A

 0 to 5V, 0 to 10V
 230V AC @ 0.010A

Special Features

■ Excellent accuracy and stability ensure reliable measurements in harsh industrial environments.

450T AC-Powered (4-wire) Transmitter

PWR W

450T

3||{

3-Way Isolation

- RFI and EMI resistance minimize the effects of environmental noise.
- 90% span adjustment enables precise application calibration.
- Compact, 1-inch wide housing uses less space for easier installation in control panels.
- Low power consumption. 350T units operate on currents as low as 9mA to help prevent expensive upgrades to larger power supplies.
- 1500V AC peak isolation (250V AC or 354V DC continuous) prevents ground loops.

250T models:

Input isolated from output/power.

350T models:

Input isolated from output and power. Output and power share a common.

450T models:

3-way isolation. Input, output, and power circuits are isolated from each other.

Performance

V/mA

Ambient Temperature Range Operating: -13 to 185°F (-25 to 85°C). Storage: -40 to 185°F (-40 to 85°C).

Accuracy

±0.1% of calibrated span or ±0.25 mV, whichever is greater. Includes repeatability, hysteresis, terminal point linearity, and adjustment resolution.

Ambient Temperature Effect

Less than ±0.01% of output span per °F (±0.018% per °C). (Specification includes the combined effects of zero and span over temperature).

Noise Resistance

RFI: Less than ±0.5% ,of output span effect. EMI: Less than ±0.25% of output span effect.

Noise Rejection

Common Mode: 120dB at 60Hz, 100 ohm unbalance. Normal Mode: 30dB at 60Hz, 100 ohm source.

Response Time

Output reaches 98% of output span in 300mS.

Bandwidth

-3dB at 3 Hz, typical.

Output Compliance

250T: RLOAD (max.) = (VSUPPLY - 12V) / 20mA. 350T: RLOAD (max.) = (VSUPPLY - 2.5V) / 20mA.

450T: RLOAD = 600 ohms.



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Isolated Transmitters



Ordering Information

Select one option from each column. Example: 450T-V4-V0-2-DIN-NCR-C To order factory calibration, append "-C" to end of model number. Specify ranges on order.

Base	Inp	Input		unting	Approval	
250T	-C1	-V4	-DIN	-N4	-NCR	
	-V1	-V5	-ST	-N12	-OL1	
	-V2	- V6	-SM	-XP	-DT1	
	-V3				-EP1	

Note: All 250Ts have 4 to 20mA output and are loop-powered.

Base
350T

Base	Input	t	Output	Power	Mounting	Approval
450T	-C1	-V4	-Y	-1	-DIN	-NCR
	-V1	-V5	-V0	-2		
	-V2	-V6	-V5			
	-V3					

Input Options

- -C1: Current range 0 to 20mA Span adjust: 4.0 to 20.0mA DC Zero adjust: 0.0 to 16.0mA DC Input impedance: 10 ohms.
- -V1: Voltage range 0 to 1V DC Span adjust: 0.1 to 1.0V DC Zero adjust: 0 to 25% of input span Input impedance: 40M ohms at 0.4V span.
- -V2: Voltage range 0 to 10V DC Span adjust: 1.0 to 10.0V DC Zero adjust: 0 to 25% of input span Input impedance: 100K ohms.
- -V3: Voltage range 0 to 100V DC Span adjust: 10.0 to 100.0V DC Zero adjust: 0 to 25% of input span Input impedance: 500K ohms.
- -V4: Voltage range ±1V DC Span adjust: ±0.1 to ±1.0V DC Zero adjust: symmetrical around 0V Input impedance: 80M ohms at 0.8V span.
- -V5: Voltage range ±10V DC Span adjust: ±1.0 to ±10.0V DC Zero adjust: symmetrical around 0V Input impedance: 100K ohms.
- -V6: Voltage range ±100V DC Span adjust: ±10.0 to ±100.0V DC Zero adjust: symmetrical around 0V Input impedance: 500K ohms.

Output Options (350T, 450T only)

- -Y: 4 to 20mA DC.
- -V0: 0 to 10V DC into 10K ohms or greater
- -V5: 0 to 5V DC into 5K ohms or greater

Power Options (450T only)

- -1: 115V AC power
- -2: 230V AC power

Mounting Options

Mountings

- -DIN: DIN rail G or T mount
- -ST: SNAPTRACK mount [250T only]
- -SM: Surface-mount [250T only]

External housings

- -N4: NEMA 4, water-tight [250T only], holds two
- -N12: NEMA 12, oil-tight [250T only], holds two
- -XP: Explosion-proof NEMA 4 [250T only], holds one

Approval Options

- -NCR: No certification/approval required.
- -OL1[†]: CSA approval, Ordinary Locations [250T only].
- -DT1⁺: CSA approval, Div. 2 hazardous locations: Class I; Div. 2; Groups A, B, C, D [250T only].
- -EP1^{††}: CSA approval, Explosion-proof for hazardous locations: Class I; Groups B, C, D Class II; Groups E, F, G. NOTE: Only available with explosion-proof housing (-XP) [250T only].

Ordering Notes

- * Unit requires factory calibration. Append "-C" to end of model number. Specify ranges on order.
- † Units are shipped separately from any optional enclosures (i.e. units are not installed in any external housing).
- †† Units shipped installed in external enclosure.

Accessories

Power supplies

See Power Supplies on page 183.

DIN RAIL 3.0

DIN RAIL 16.7

DIN rail strip, Type T, 3 inches (75mm) or 16.7 inches (425mm)

20RM-16-DIN

19" rack-mount kit with DIN rail. Holds sixteen 250T/350Ts or ten 450T transmitters.

350T-N4-WM

NEMA 4 water-tight enclosure, wall-mount. Holds two 350Ts or one 450T transmitter.

350T-N12-WM

NEMA 12 oil-tight enclosure, wall-mount. Holds two 350Ts or one 450T transmitter.

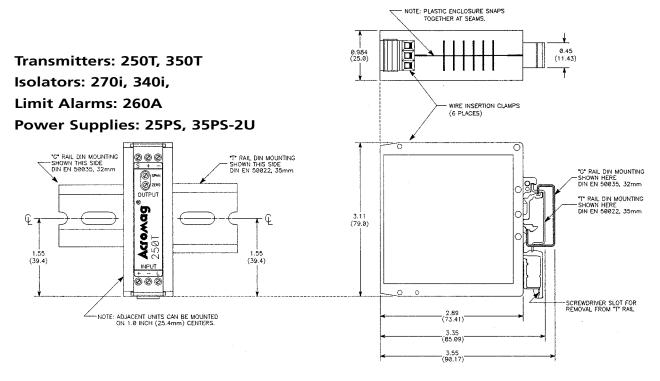


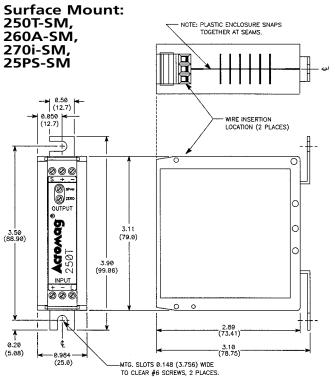
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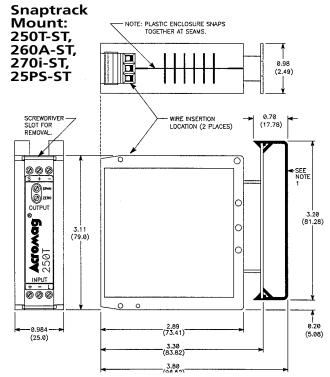
Flat Pack Series



Dimensions







Dimensions are in inches (millimeters).

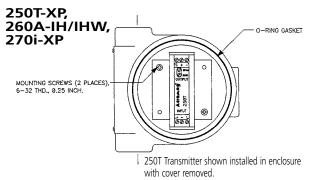
Acromag Tie LEADER IN INDUSTRIAL I/O

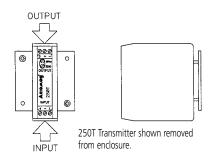
Signal Conditioners

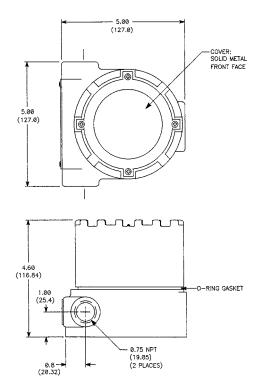


Dimensions

Explosion-Proof and Industrial Housing

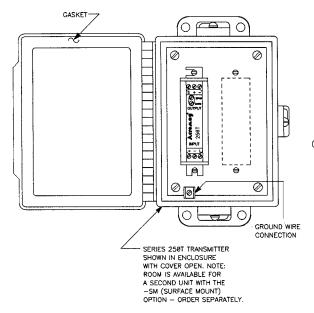


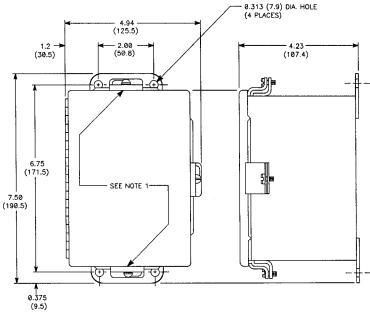




NEMA-4 and NEMA-12 Enclosures

250T-N4 / N12, 25PS-N4 / N12 260A-N4 / N12, 270i-N4 / N12





NOTES:

- THESE SPECIFIC CLAMPS
 ON NEMA 4 ENCLOSURES ONLY.
- CONDUIT MOUNTING HOLES AND
 FITTINGS ARE CUSTOMER SUPPLIED.

Dimensions are in inches (millimeters).

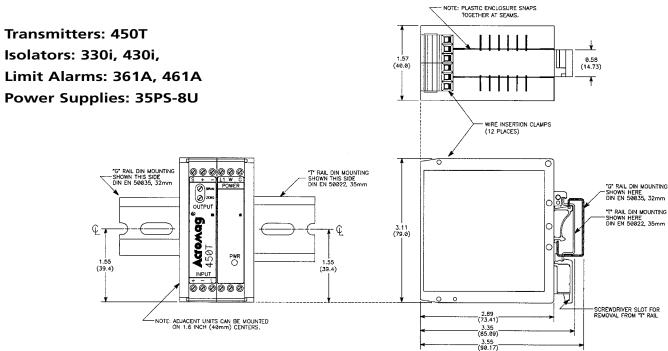


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Flat Pack Series



Dimensions



NEMA-4 and NEMA-12 Enclosures THIS SERIES OF ENCLOSURES CAN ACCOMODATE THE FOLLOWING FLAT-PACK 350T-N4-WM **ENCLOSURE** INTERNAL VIEW 350T-N12-WM MODULE TYPES. SUPPLIED WITH U-BOLT (2 PLACES) GASKET-0 **⊘** A. TWO, 25MM WIDE MODULES. B. ONE, 25MM WIDE MODULE AND ONE 350T-N4-PM TO REMOVE A 40MM WIDE MODULE. MODULE FROM NOTE: MODULES MUST THE ENCLOSURE, HAVE THE (-DIN) MOUNTING OPTION. INSERT A FLAT BLADE SCREWDRIVER INTO 9.25 (234.95) THE LOWER ARM OF THE CONNECTOR AND PULL DOWNWARDS MATERIAL: 12 GA C.R.S. Finish: Bright Zinc Plate, Commercial Quality WHILE APPLYING OUTWARD PRESSURE ره ليها ه TO THE BOTTOM 0 0 OF THE MODULE -0.313 (7.9) DIA. HOLE (4 PLACES) 1.2 -(30.5) - 4.23 -(107.4) WALL MOUNT VERSIONS MODELS: 350T-N4-WM 350T-N12-WM 7.50 (190.5)

Acromag The LEADER IN INDUSTRIAL I/O

NOTES:

1. THESE SPECIFIC

CLAMPS ON NEMA 4 ENCLOSURES ONLY.

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3. ALL DIMENSIONS ARE IN

INCHES (MILLIMETERS).

Dimensions are in inches (millimeters).

2. CONDUIT MOUNTING

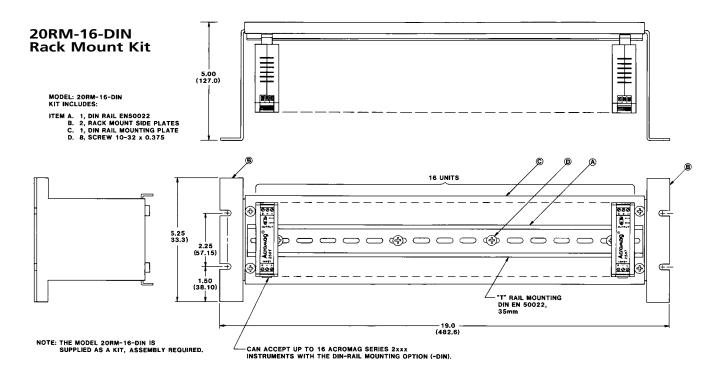
SUPPLIED.

HOLES AND FITTINGS ARE CUSTOMER

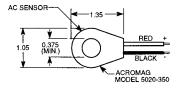
Signal Conditioners



Dimensions



AC Sensor 5020-350



Dimensions are in inches (millimeters).