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IMPORTANT SAFETY CONSIDERATIONS

It is very important for the user to consider the possible adverse effects of power, wiring, component, sensor, or software failures in designing any type of control or monitoring system. This is especially important where economic property loss or human life is involved. It is important that the user employ satisfactory overall system design. It is agreed between the Buyer and Acromag, that this is the Buyer's responsibility.

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8500-497-A94A000

INTRODUCTION:

These instructions cover the model types listed in Table 1 below. Supplementary sheets are attached for units with special options or features.

Table 1:

- A. Model Number Format:
250T-Input-Mounting/Display-Certification-Calibration
- B. Typical Model Number: 250T-VAC-XPDI-NCR-C

Series	-Input	-Mounting/ Display	-Certification	-Calib.
250T	-VAC	-DIN	-NCR	(Blank)
		-SM	-Approval ²	-C ¹
		-ST		
		-N4		
		-N12		
		-4X		
		-4XD1		
		-4XD3		
		-XP		
		-XPD1		
		-XPD3		

Notes (Table 1):

- Unit can be ordered with or without factory calibration; if unit is factory calibrated to customer specifications, the model number suffix "-C" will indicate this. Any customer specified calibration information will be included on a separate calibration label on the unit.
- Consult the factory for current information on agency (e.g. Canadian Standards Association, etc.) approvals.

DESCRIPTION:

These two-wire transmitters condition AC Voltage with spans from 60 to 150V AC, and convert this signal to a 4 to 20mA process current output. Input circuit isolation is standard. The unit also includes wide range zero and span adjustments. The transmitters are RFI-protected, operate over large temperature ranges, and feature excellent temperature coefficients, which minimize the effects from the harsh plant environment.

Following basic two-wire design, the output and DC power share the same pair of twisted copper wires. The transmitter acts similar to a variable resistor in series with the load and DC supply and provides an output loop current proportional to the input sensor signal. See Drawing 4501-448 for a simplified schematic.

Other Series 250T transmitters are available to condition DC voltage, DC current, frequency, RTD, thermocouple, AC current, and slidewire/potentiometer inputs.

These field mounted two-wire transmitters are designed to support a variety of mounting options. The transmitter is available for DIN-rail mounting, surface mounting, 3-inch SNAPTRACK™ plastic rail mounting, or in various housings. These housings include NEMA 4, 12, 4X, and explosion-proof enclosures. The model number of the unit specifies the mounting/enclosure type.

When mounted in the explosion-proof enclosure, the transmitter is available with a 3-1/2 digit LCD readout (1/2-inch height) to provide a visual indication of the transmitter's output. The readout is available in percent-of-span or engineering units and scaled to customer requirements.

Input wiring is inserted in the bottom of the unit, while output wiring is inserted at the top of the unit. Screws to secure the wiring are located on the front panel. Connectors are screw-clamp type and accept wire size up to #14 AWG.

SPECIFICATIONS:

Function: This family of isolated two-wire transmitters condition an AC Voltage signal, provide input circuit isolation, and convert the input signal to a 4 to 20mA process current output. Wide range zero and span adjustments utilize 22-turn potentiometers accessible from the front of the unit. The transmitter has various mounting and enclosure options available.

MODEL/SERIES: 250T-

INPUT:

-VAC: AC Voltage, 50/60 Hz; spans 60 to 150V AC, zero offset from 0 to 90V AC, both continuous adjustments. Unit will withstand 2.0 times full-scale continuously. Input impedance is 100K ohms, nominal.

Isolation: The input circuit is electrically isolated from the output/power circuit, allowing the input to operate at up to 250V AC, or 354V DC off ground, on a continuous basis (will withstand 1500V AC dielectric strength test for one minute without breakdown). This complies with test requirements outlined in ANSI/ISA-S82.01-1988 for the voltage rating specified.

Output: 4-20mA DC output.

Note: A Test Signal of 40mV to 200mV is available at the output terminals and corresponds to 4mA to 20mA of loop current (see Drawing 4501-371).

Power: An external loop power supply is required: 12V DC minimum, 50V DC maximum. The DC supply must never exceed 75 volts peak instantaneously, or damage to the unit may occur. Unit has reverse polarity protection built-in.

Output Limits (typical): 3.8mA DC to 26mA DC.

Load Resistance Range Equation:
R-Load (Maximum) = (V supply - 12V) / 20mA.
At 24V supply, R-Load = 0 to 600 ohms.

Power Supply Effect:

DC Volts: $\pm 0.001\%$ of output span per volt DC.
60/120 Hz ripple: $\pm 0.01\%$ of output span per volt peak-to-peak of power supply ripple.

Reference Test Conditions: Input: 0 to 150V AC, 60Hz.; output: 4-20mA into a 500 ohm load; 77°F (25°C); +24V DC supply.

Accuracy: Better than $\pm 0.5\%$ of calibrated span. This error includes the combined effects of transmitter repeatability, hysteresis, terminal point linearity, and adjustment resolution.

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

Ambient Temperature Effect: Less than $\pm 0.01\%$ of output span per °F ($\pm 0.018\%$ per °C) over the ambient temperature range for reference test conditions (specification includes the combined effects of zero and span over temperature).

Load Resistance Effect: Less than $\pm 0.005\%$ of output span for 100 ohm change.

Output Ripple: Less than $\pm 0.25\%$ of the maximum output span. Can be reduced to less than $\pm 0.1\%$ by adding a 1uF capacitor across the load resistor. Some loads (such as E/P & I/P devices) may require a 0.1uF capacitor inserted across the load.

Bandwidth: -3dB at 1KHz, typical

Response Time: For a step input, the output reaches 98% of its transition in 300ms, typical.

Noise Rejection:

Common Mode: Better than 85dB at 60 Hz, 100 ohm unbalance, typical.
Normal Mode: Not Applicable.

RFI Resistance: Less than $\pm 0.5\%$ of output span change with field strengths of up to 10V/meter at frequencies of 27MHz, 151MHz, and 467 MHz.

EMI Resistance: Less than $\pm 0.25\%$ of output span effect with switching solenoids or commutator motors.

Surge Withstand Capability (SWC): Input/Output terminations rated per ANSI/IEEE C37.90-1978. Unit is tested to a standardized test waveform that is representative of surges (high frequency transient electrical interference), observed in actual installations.

Construction (Basic Transmitter):

Circuit Boards: Military grade FR-4 epoxy glass circuit board.
Circuit Board Coating: Fungus resistant acrylic conformal coat.
Terminals: Compression type, wire size 14 AWG maximum.
Mounting Position: Position insensitive.
Case: Self-extinguishing NYLON Type 6.6 polyamide thermoplastic UL94 V-2, color black. General Purpose, NEMA Type 1 enclosure.

MOUNTING/DISPLAY: A wide variety of mounting options and enclosures are available to meet the needs of your installation. The available models are listed below. The transmitter is shipped as a complete assembly.

General Purpose Housing: Available with the various mounting options listed below. Case: Self-extinguishing NYLON Type 6.6 polyamide thermoplastic UL94 V-2, color black.

- DIN:** General Purpose Housing, DIN Rail-Mount - "G" & "T" rails. "G" Rail (32mm), Type EN50035; "T" Rail (35mm), Type EN50022. Refer to Drawing 4501-080 for outline and clearance dimensions. Shipping Weight: 1 pound (0.45Kg) packed.
- SM:** General Purpose Housing, Surface-Mount. Refer to Drawing 4501-081 for outline and clearance dimensions. Shipping Weight: 1 pound (0.45Kg) packed.
- ST:** General Purpose Housing, SNAPTRACK™. Refer to Drawing 4501-081 for outline and clearance dimensions. Shipping Weight: 1 pound (0.45Kg) packed. SNAPTRACK™ is a registered trademark of Reed Devices, Inc.

NEMA 4 and 12 Enclosures: Option types listed below. Refer to Drawing 4501-083 for outline and clearance dimensions. Transmitter is mounted within the enclosure at the factory. These enclosures may accommodate a second Series 250T transmitter with the surface-mount option (-SM option, ordered separately). Conduit mounting holes and fittings are customer supplied.

- N4:** **Water-Tight Enclosure, NEMA 4.** Enclosure material and finish: 0.075 and 0.060 inch thick steel with gray hammertone enamel finish inside and out. Shipping weight: 6 pounds (2.7Kg) packed.
- N12:** **Oil-Tight Enclosure, NEMA 12.** Enclosure material and finish: 0.075 and 0.060 inch thick steel with gray hammertone enamel finish inside and out. Shipping weight: 6 pounds (2.7Kg) packed.

Non-Corrosive, Water-Tight Enclosures, NEMA 4X: Option types listed below. Refer to Drawing 4501-086 (NO DISPLAY WINDOW), or Drawing 4501-087 (WITH DISPLAY WINDOW), for outline and clearance dimensions. Enclosure material: ADALEX. Finish: Gelcoat. Transmitter is mounted within the enclosure at the factory.

- 4X:** Water-Tight Enclosure, Non-corrosive, NEMA 4X (No Window). Shipping weight: 5 pounds (2.3Kg) packed.
- 4XD1:** Water-Tight Enclosure, Non-corrosive, NEMA 4X (With Window). Includes the Standard Display Option (D1). Shipping weight: 6 pounds (2.7Kg) packed.
- 4XD3:** Water-Tight Enclosure, Non-corrosive, NEMA 4X (With Window). Includes the Engineering Units Display Option (D3). Shipping weight: 6 pounds (2.7Kg) packed.

Explosion Proof, Water-Tight Enclosures: Option types listed below. Refer to Drawing 4501-084 (NO DISPLAY WINDOW), or Drawing 4501-085 (WITH DISPLAY WINDOW), for outline and clearance dimensions. Enclosure Materials: Body and cover - Copper-free aluminum (less than 0.4%), Glass lens - Heat tempered glass, Gasket - Neoprene. Finish: Corro-free epoxy powder coat, color gray. Hub size: 0.75 inch (Quantity 2). Housing meets Class I - Groups B, C, & D, Class II - Groups E, F, & G, Class III, and NEMA 4 (water-tight) requirements. Transmitter is mounted within the enclosure at the factory.

- XP:** Explosion Proof, Water-Tight Enclosure (No Window). Shipping weight: 5 pounds (2.3Kg) packed.
- XPD1:** Explosion Proof, Water-Tight Enclosure (With Window). Includes the Standard Display Option (D1). Shipping weight: 6 pounds (2.7Kg) packed.
- XPD3:** Explosion Proof, Water-Tight Enclosure (With Window). Includes the Engineering Units Display Option (D3). Shipping weight: 6 pounds (2.7Kg) packed.

DISPLAY OPTION: The Display is available as an option when specifying the "-4X" or "-XP" Housing. The linear display option assembly includes zero and span trim adjustments. Display Options include:

- xxD1:** Standard Display Option (D1): The minimum and maximum input (any calibration) is represented by 00.0 and 100.0% on the display (normalized). It also represents the 4 to 20mA transmitter output, a resolution of 0.1% of span.
- xxD3:** Engineering Units Display Option (D3): The minimum and maximum display readings correspond to the minimum and maximum display readings specified for the unit by the customer.

Display Range: The minimum display reading can be from -1999 to +1999 counts, while the span range can be from 100 to 2000 counts (span counts = maximum counts minus minimum counts--Note: mentally remove the decimal point to determine the display counts). The decimal point is configured as required (such as 00.0 to 100.0%).

Display Characteristics: The 7-segment reflective Liquid Crystal Display (LCD) contains 3-1/2 digits (1999) with 1/2 inch character height. Also includes a factory programmed 3 position decimal point. Optimal view angle is 60 degrees.

No Output Burden: Provides a visual indication of the transmitter output without reducing the output compliance (the allowable load resistance range).

Display Ambient Temperature Range: Operating: 0 °C to +50°C (+32 to +122°F); Storage: -20 °C to +70°C (-4°F to +158°F).

Over-range: The three lower order digits blank for >1999 counts.

Display Accuracy: ±(0.1% of reading + 2 counts).

Display Ambient Temperature Effect: $\pm 0.02\%$ per $^{\circ}\text{C}$
($\pm 0.012\%$ per $^{\circ}\text{F}$), typical.

Conversion Rate: 2.5 per second.

CERTIFICATION: Consult the factory for current information on the availability of agency (e.g. Canadian Standards Association, Factory Mutual, etc.) approvals.

-NCR: No Certification Required.

INSTALLATION:

The transmitter is packaged in a general purpose plastic housing and optionally mounted within a variety of protective enclosures. The transmitter should be located in an area that is protected from dust, moisture, and corrosive atmospheres. The enclosure type determines the protection afforded in a particular environment and location, make sure this is not compromised. Maximum operating ambient temperatures should be within -13°F to 185°F (-25°C to 85°C) for satisfactory performance. Factory calibrated units are ready for installation. Connect as shown in Connection Drawing 4501-371. If unit is not factory calibrated, refer to the "CALIBRATION" section.

Mounting: Mount transmitter assembly - refer to appropriate outline drawing for mounting and clearance dimensions. Determine which configuration is utilized and consult the proper mounting instructions listed below.

1. **DIN Rail Mounting:** Use suitable fastening hardware to secure the DIN rail to the designated mounting surface. A transmitter ordered with the DIN Rail mounting option (-DIN) can be mounted to either the "T" or "G" Rail. Installation of the transmitter to the rail depends on the type of DIN rail used (see Drawing 4501-080). Units can be mounted side-by-side on 1.0-inch centers, if required.
2. **Surface Mounting:** Secure the transmitter to the designated mounting surface using two 6-32 screws. Note that the mounting bracket has screw slots to facilitate mounting. Units can be mounted side-by-side on 1.0-inch centers, if required.
3. **SNAPTRACK™ Mounting:** Secure the SNAPTRACK™ mounting channel to the designated mounting surface using suitable fastening hardware. To install the unit in the mounting channel, place the bottom end of the mounting bracket between the rails and press the top (notched end) firmly until the bracket "snaps" into place. To remove the transmitter, insert a screwdriver into the upper arm of the connector, twist to release the unit from the track and tip the unit out. Units can be mounted side-by-side on 1.0-inch centers, if required.

4. **NEMA 4 & 12 Enclosure Mounting:** Secure the enclosure assembly to the designated mounting surface using appropriate hardware. The transmitter is secured within this enclosure using two screws. Note: It is recommended that the transmitter be removed from the enclosure during the process of drilling holes, installing fittings, and mounting the enclosure.

5. **NEMA 4X and Explosion-Proof Mounting:** Secure the enclosure assembly to the designated mounting position using appropriate hardware.

Note: It is recommended that the transmitter be removed from the enclosure during the process of mounting the enclosure. To remove the unit from the enclosure, remove two screws securing it to the bottom of the enclosure. After the enclosure is installed, install the transmitter into the enclosure. Position the unit at an angle that permits all wiring to be routed unobstructed through both ports. If the transmitter has the display option, make sure the orientation of the display allows for easy reading once installed. Secure the transmitter assembly to the enclosure using two screws.

Electrical Connections:

The wire size used to connect the unit to the control system is not critical. All terminal strips can accommodate wire from 14-26 AWG. Strip back wire insulation 1/4-inch on each lead before installing into the terminal block. Input wiring may be shielded or unshielded twisted pair. Output wires should be twisted pair. Since common mode voltages can exist on signal wiring, adequate wire insulation should be used and proper wiring practices followed. It is recommended that the output/power wiring be separated from the signal wiring for safety, as well as for low noise pickup.

1. **Output/Power:** Connect DC power supply and load per Connection Drawing 4501-371. These transmitters operate from DC power supplies only. Power supply voltage is not critical and normally should be from 12-50V DC. The supply voltage must not exceed 75 volts, even instantaneously. The power supply voltage must be adequate to furnish full-scale current to the load(s), plus transmission line drop, plus 12V DC terminal voltage to the transmitter. Variations in power supply voltage or load resistance have negligible effect on transmitter accuracy.

Ripple and Noise: Power supply ripple at 60Hz/120Hz is reduced at the load by the transmitter. The ripple at the load will be 0.01% of span per volt peak to peak of power supply ripple. The unit may have up to 0.25 percent of internally generated ripple; connect an external luf capacitor across the load to reduce this ripple to less than 0.1 percent if desired.

2. **Grounding:** The two-wire transmitter is packaged in a General Purpose plastic housing and does not require an earth ground connection. However, if the transmitter is mounted in a metal housing, a ground wire connection is required. Connect the ground terminal (green screw) to earth ground using suitable wire per applicable codes.

3. **Input:** Connect input per Connection Drawing 4501-371. If unit is factory calibrated, the calibration label indicates range of input.

Note: The input circuit is electrically isolated from the output/power circuit, allowing the input to operate up to 250V AC, or 354V DC off ground, on a continuous basis.

CALIBRATION:

A. TRANSMITTER:

This section provides calibration information. If the unit was factory calibrated, verification of the calibration can be made per the following Transmitter Adjustment Procedure:

Transmitter Adjustment Procedure:

Connect unit as shown in Calibration Connection Drawing 4501-448. For best results, the input signal source should be adjustable over the entire input range of the unit, settable to an accuracy of 0.25% or better, and have a source resistance of 100 ohms or less. The power supply voltage must be adequate to furnish full-scale current to the load, plus wire drop, plus 12V DC terminal voltage to the transmitter. The output current must be measured to 0.25% accuracy or better for proper results.

The Zero and Span adjustments are accessible on the front panel of the transmitter (see Drawing 4501-448 for location). The screwdriver blade used to adjust the potentiometers should not be more than 0.1-inch (2.54mm) wide.

Transmitter - Calibration Example:

MODEL : 250T-VAC-XPDI-NCR
Input : 0 to 150V AC
Output : 4-20mA

1. Set the input source to 0.00V AC. Adjust the Zero (Z) pot until the output reads 4.000mA DC.
2. Set the input source to 150.00V AC. Adjust the Span (S) pot until the output reads 20.000mA DC.
3. Repeat steps 1 and 2 until the readings converge. The instrument is now calibrated. Several mid-point values should also be checked to verify proper operation of the transmitter.

B. DISPLAY:

Display - Adjustment Procedure:

If the unit you are calibrating has a display, the display is calibrated separately from the transmitter. However, the calibration of the transmitter must be verified FIRST (see above procedure), before verifying calibration of the display module. Refer to Drawing 4501-371 for location of the Transmitter's Zero and Span adjustments, and the location of the Display's Zero and Span adjustments. NOTE: The display option is factory configured for a particular customer specified range -- the Zero (DZ) and Span (DS) adjustments are fine-trim adjustments only.

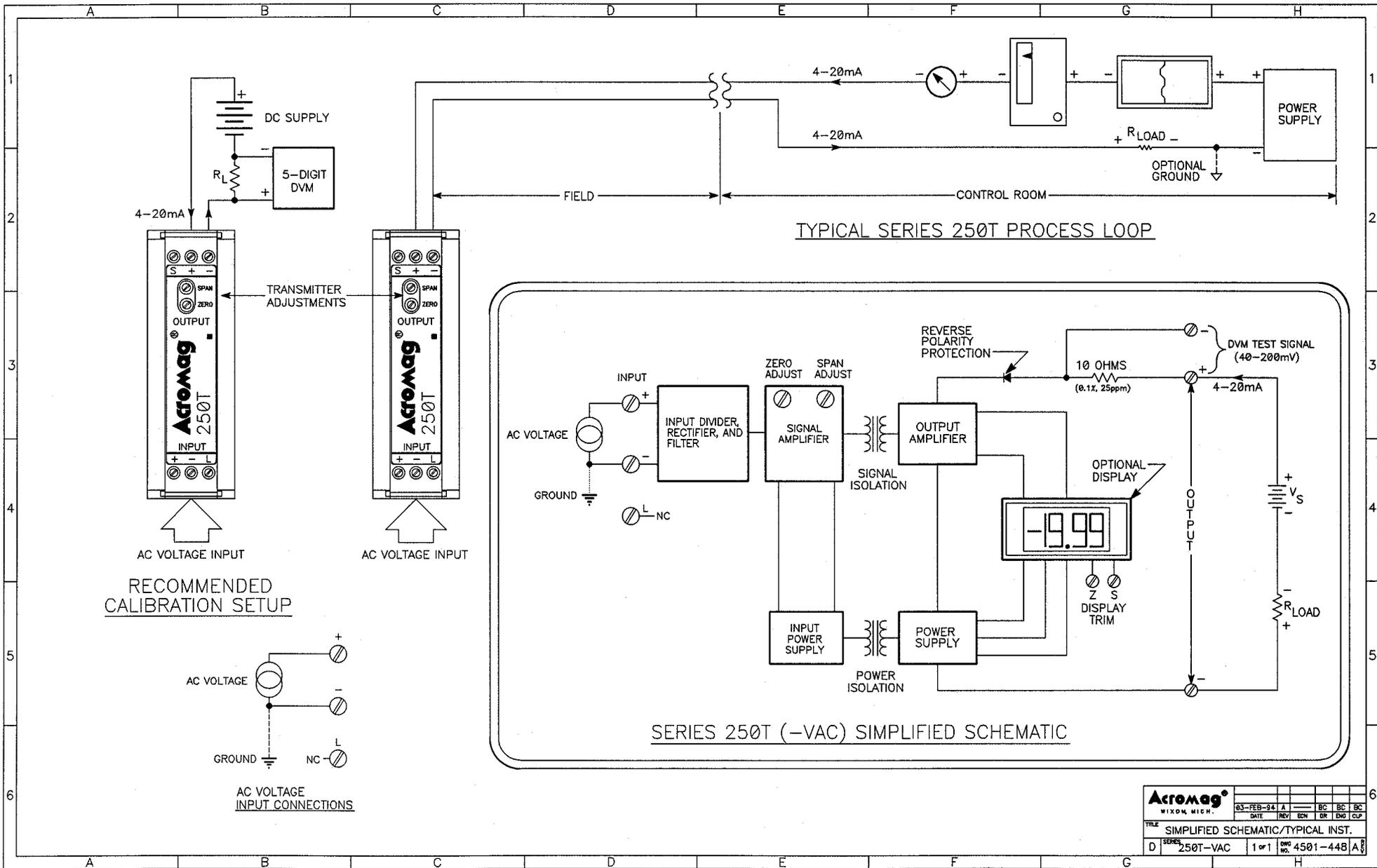
Display - Calibration Example:

MODEL : 250T-VAC-XPDI-NCR
Input : 0 to 150V AC
Display : 0 to 100.0%

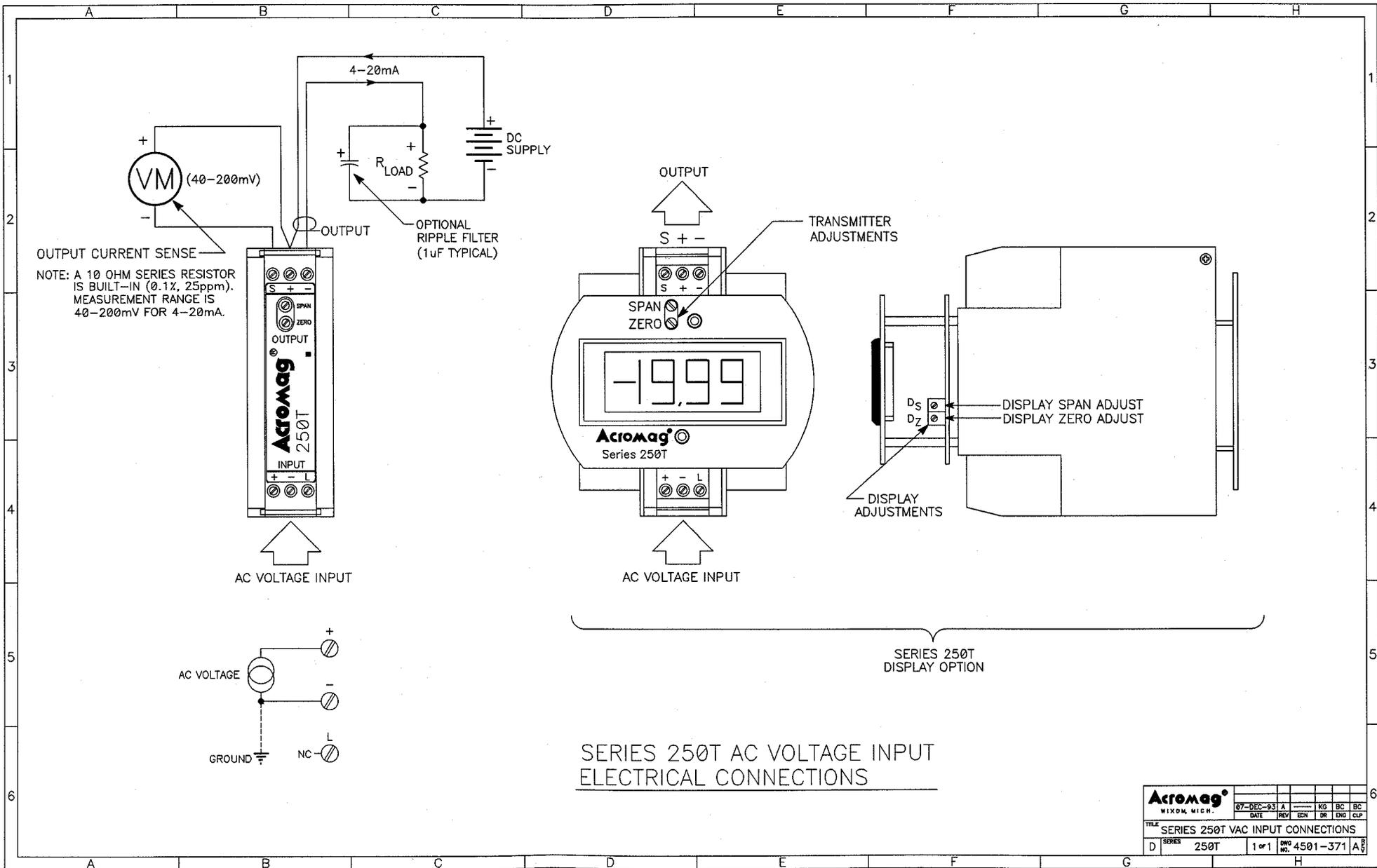
1. Set the input source to 0.00V AC (the Zero point of the transmitter's span). Adjust the Zero (DZ) pot of the Display module for the zero of the display range, 0.0% in this example.
2. Set the input source to 150.00V AC (the full-scale point of the transmitter's span). Adjust the Span (DS) pot on the Display module for correct full-scale indication (100.0% in this example).
3. Repeat steps 1 and 2 until the readings converge. The display is now calibrated.

GENERAL MAINTENANCE:

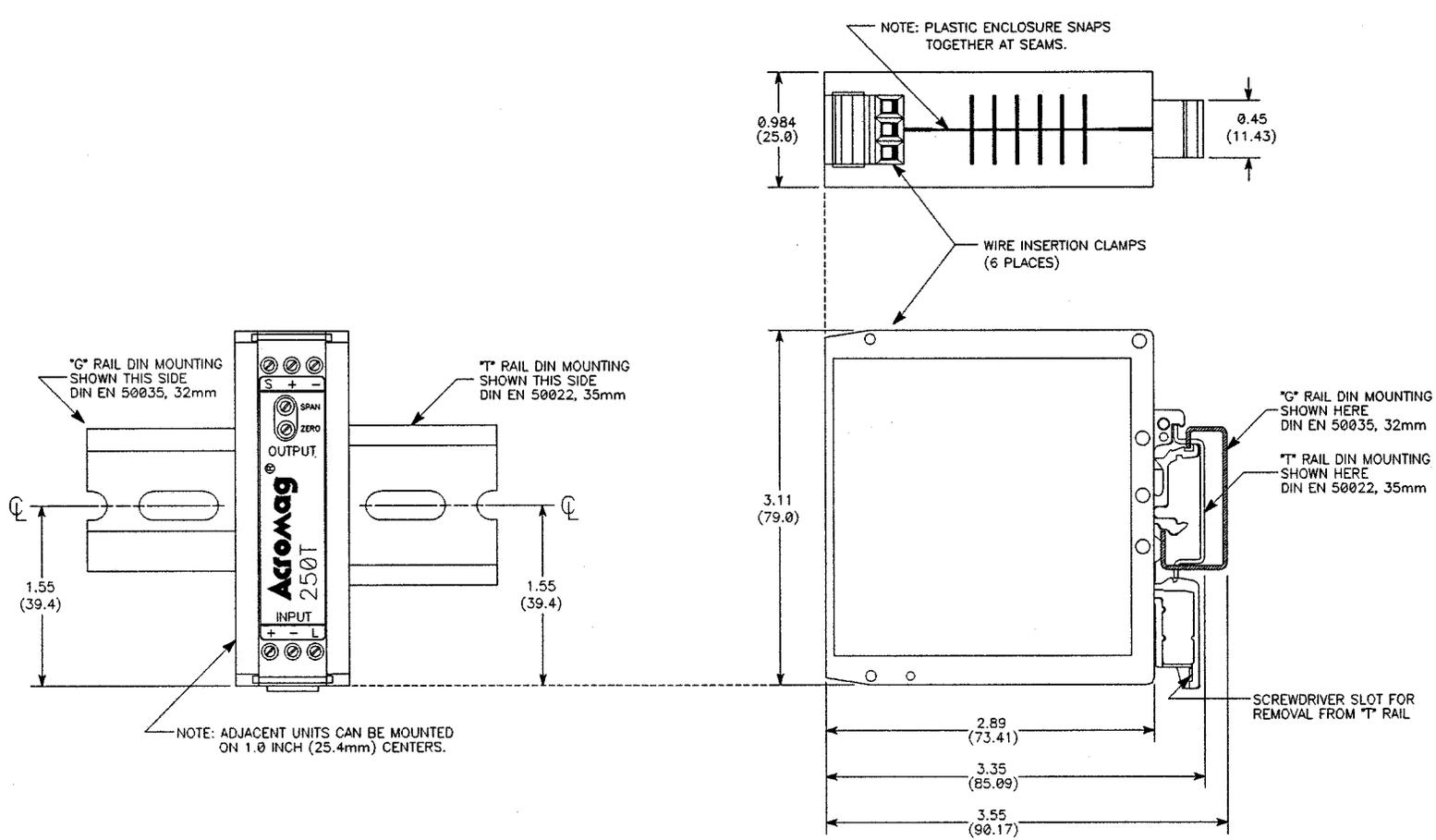
The transmitter contains solid-state components and requires no maintenance, except for periodic cleaning and calibration verification. When a failure is suspected, a convenient method for identifying a faulty transmitter is to exchange it with a known good unit. It is highly recommended that a non-functioning transmitter be returned to Acromag for repair, since Acromag used tested and burned-in parts, and in some cases, parts that have been selected for characteristics beyond that specified by the manufacturer. Further, Acromag has automated test equipment that thoroughly checks the performance of each transmitter.



Acromag WIXOM, MICH.		03-FEB-94	A	BC	BC	BC
TITLE	SIMPLIFIED SCHEMATIC/TYPICAL INST.	DATE	REV	ENR	DR	ENG
D	250T-VAC	1 of 1	DWG NO.	4501-448	A	



Acromag WIXOM, MICH.		07-DEC-93	A						
DATE	REV	ECN	DR	ENG	CLP	KG	BC	BC	
TITLE: SERIES 250T VAC INPUT CONNECTIONS									
D	SERIES	250T	1 of 1	DWG NO.	4501-371	A			

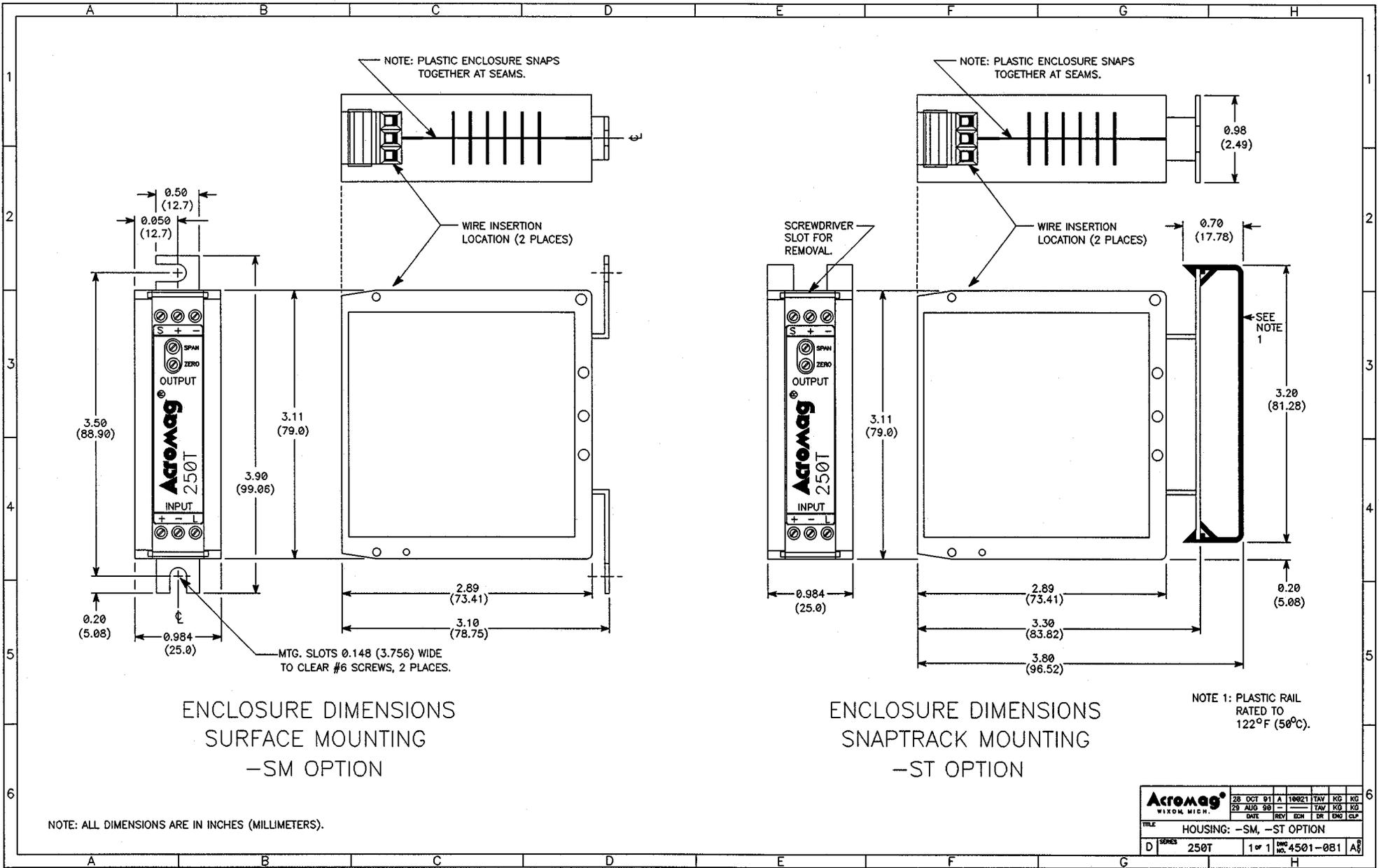


NOTE: ADJACENT UNITS CAN BE MOUNTED ON 1.0 INCH (25.4mm) CENTERS.

ENCLOSURE DIMENSIONS
DIN RAIL MOUNTING
(-DIN OPTION)

NOTE: ALL DIMENSIONS ARE IN INCHES (MILLIMETERS).

Acromag WIXOM, MICH.		28	AUG	93											
TITLE	DATE	REV	ECN	DR	ENG	CLP									
250T HOUSING: DIN RAIL MOUNT															
D	SERIES	250T	1	OF	1	DWG	NO.	4501-080							



Acromag® WIXOM, MICH.		28 OCT 91	A	18021	TAV	KC	KD
TITLE		29 AUG 98			TAV	KC	KD
HOUSING: -SM, -ST OPTION		DATE	REV	EDN	DR	ENR	CLP
D	SERIES 250T	1 of 1	REV	NO. 4501-081	A8		

250T TRANSMITTER ASSEMBLY
FOR -XPDx ENCLOSURES

NOTE: TO REMOVE TRANSMITTER
FROM DISPLAY ASSEMBLY
PROCEED AS FOLLOWS.

- A. REMOVE SCREWS, ITEM A, (2 PLACES).
- B. PULL DISPLAY ASSEMBLY AND
DISPLAY MTG. BRACKET (B)
FROM TRANSMITTER, A SIX
PIN CONNECTOR WILL
DISCONNECT FROM TRANSMITTER.
- C. FOR ACCESS TO INTERNAL
CONFIGURATION JUMPERS
TAKE PLASTIC ENCLOSURE
APART AT SEAMS USING A FLAT
BLADE SCREWDRIVER.
- D. MOUNTING BRACKET, ITEM C,
IS HELD IN PLACE BY THE
TWO HALVES OF THE
PLASTIC ENCLOSURE.

DISPLAY
ASSEMBLY
REMOVAL

NOTE: DO NOT REMOVE
BLACK SCREWS (2 PLACES).

DISPLAY ASSEMBLY CONNECTION PINS
SHOWN EXTRACTED FROM
TRANSMITTER (6 PINS).

DISPLAY ASSEMBLY COMPONENT PARTS,
A FACTORY UNIT
ASSEMBLY.

DISPLAY ASSEMBLY SHOWN
PARTIALLY REMOVED FROM
TRANSMITTER

TOP VIEW

BLACK
PLASTIC
TRANSMITTER
ENCLOSURE

NOTE:
PLASTIC ENCLOSURE
SNAPS TOGETHER
AT SEAMS

DISPLAY ASSEMBLY
REMOVAL

OUTPUT TERMINALS

DISPLAY ELECTRICAL
CONNECTION,
TO TRANSMITTER
(6 HOLES).

SCREW 6-20, PAN HEAD,
STEEL THREAD CUTTING
(ACROMAG PART 1010-349),
2 PLACES.

SCREW (2 PLACES)
6-32 THD., 0.25 INCH

ALUMINUM DISPLAY
MTG. BRACKET

DISPLAY
CIRCUIT
ASSEMBLY

OUTPUT
TERMINALS

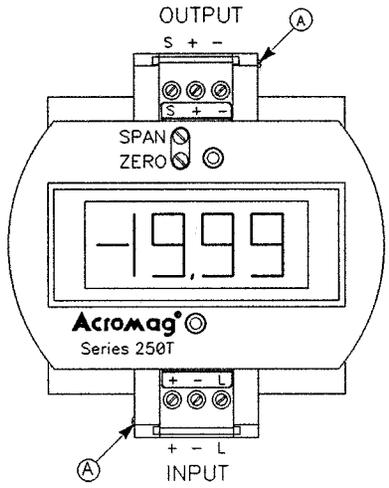
DISPLAY/TRANSMITTER
ELECTRICAL CONNECTIONS

DISPLAY SPAN ADJUST
DISPLAY ZERO ADJUST

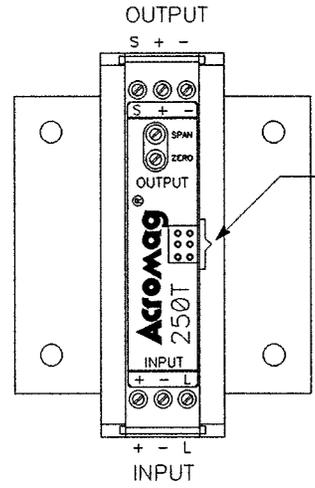
MOUNTING
BRACKET

DISPLAY ASSEMBLY SHOWN
ASSEMBLED TO TRANSMITTER
AND SECURED BY TWO SCREWS,
(ITEM A).

INPUT
TERMINALS



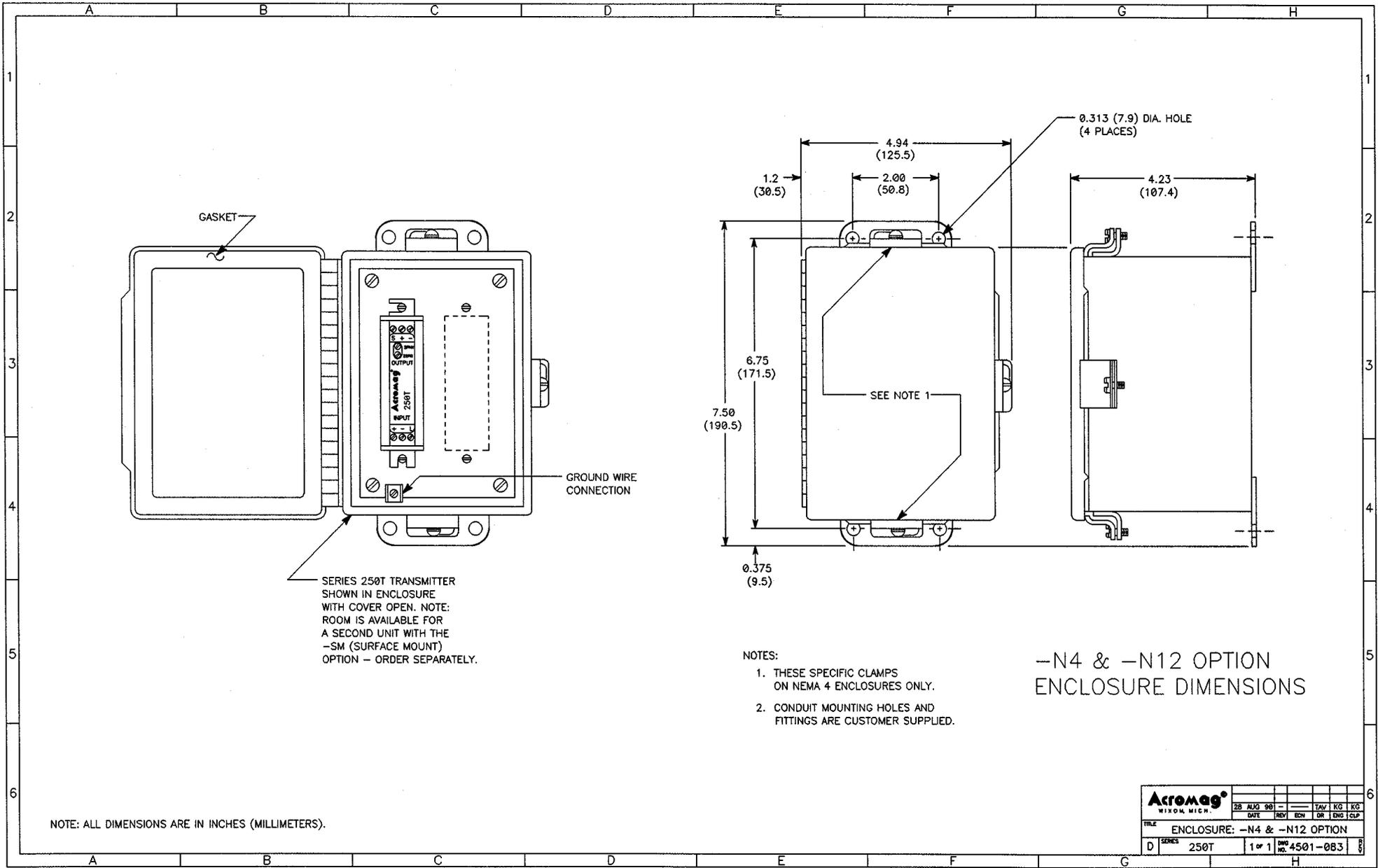
TRANSMITTER ASSEMBLY
WITH
DISPLAY ASSEMBLY MOUNTED



TRANSMITTER ASSEMBLY
WITH
DISPLAY ASSEMBLY REMOVED

DISPLAY
ELECTRICAL
CONNECTIONS
TO
TRANSMITTER
(6 PINS)

Acromag WILKON MICH.		14 APR 94	A	P40607	TAV	BC	EC
		28 AUG 90			TAV	KG	KG
TITLE		DATE	REV	ENH	DR	END	CLP
D		SERIES	250T	1 of 1	DOC NO.	4501-082	A



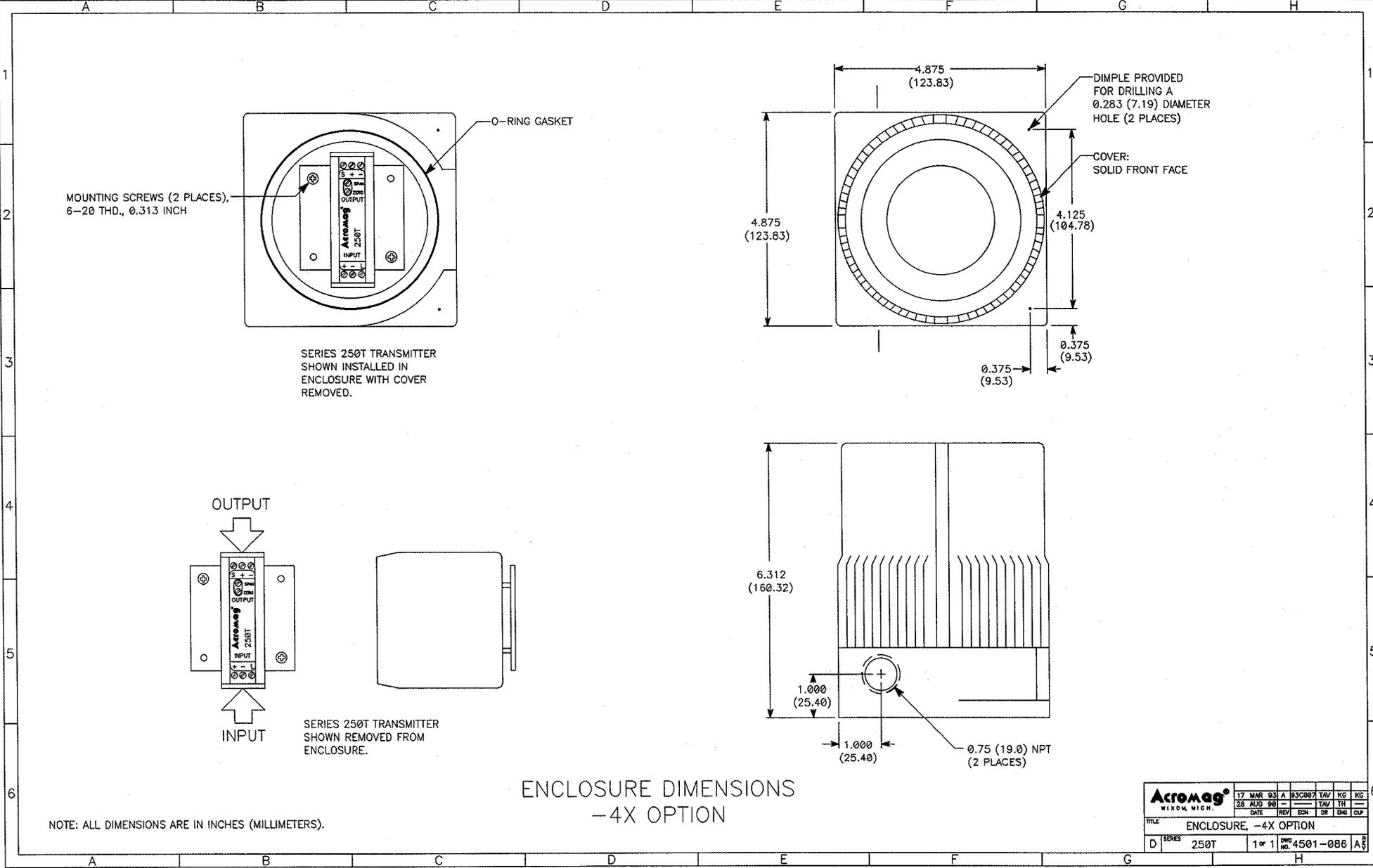
SERIES 250T TRANSMITTER SHOWN IN ENCLOSURE WITH COVER OPEN. NOTE: ROOM IS AVAILABLE FOR A SECOND UNIT WITH THE -SM (SURFACE MOUNT) OPTION - ORDER SEPARATELY.

NOTE: ALL DIMENSIONS ARE IN INCHES (MILLIMETERS).

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

-N4 & -N12 OPTION
ENCLOSURE DIMENSIONS

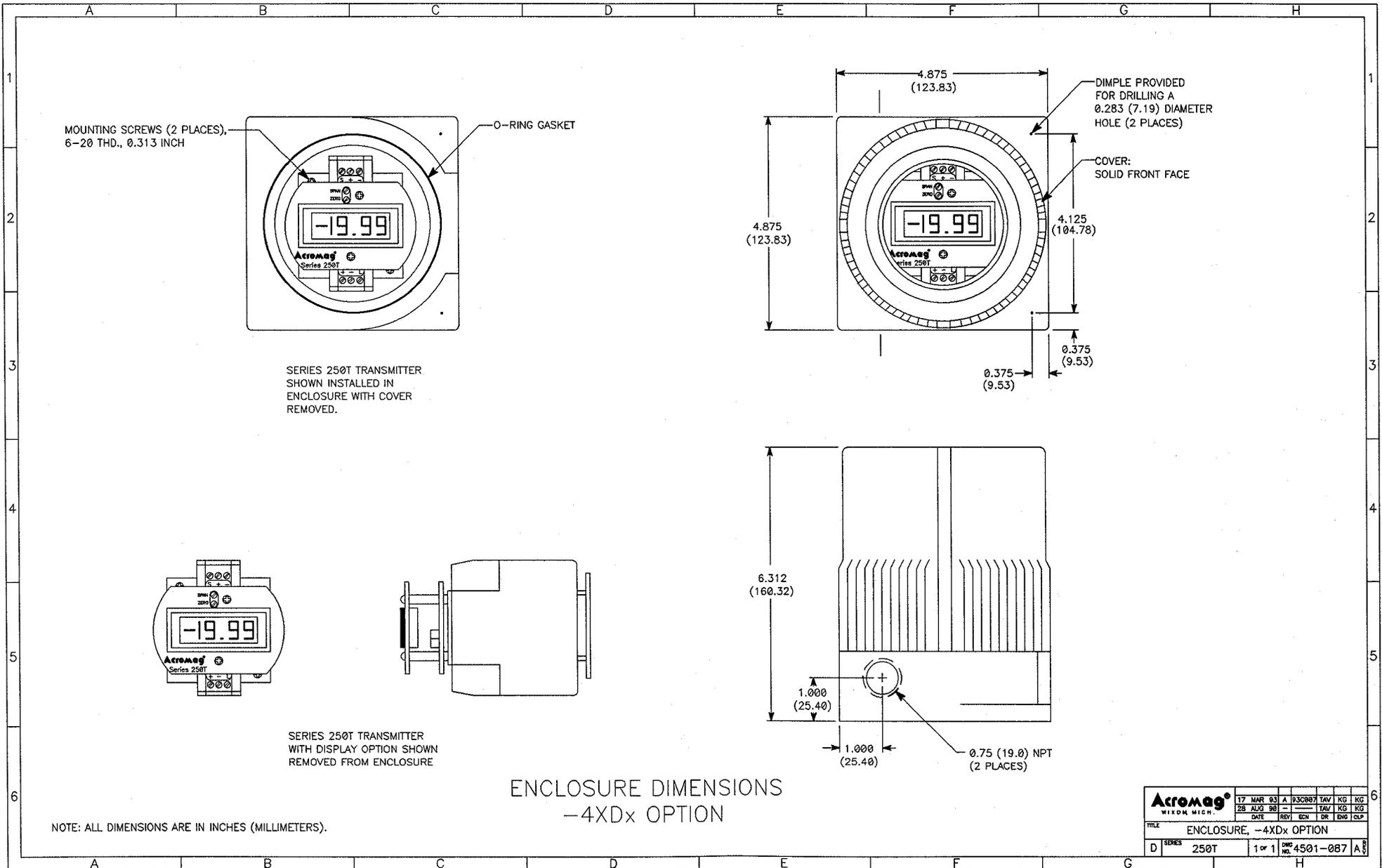
Acromag WILSON, MICH.		28	AUG	98	-	-	TAV	KG	KG
TITLE		DATE	REV	EDN	DR	ENG	CLP		
ENCLOSURE: -N4 & -N12 OPTION									
D	SERIES	250T	1	OF	1	DWG	NO.	4501-083	6



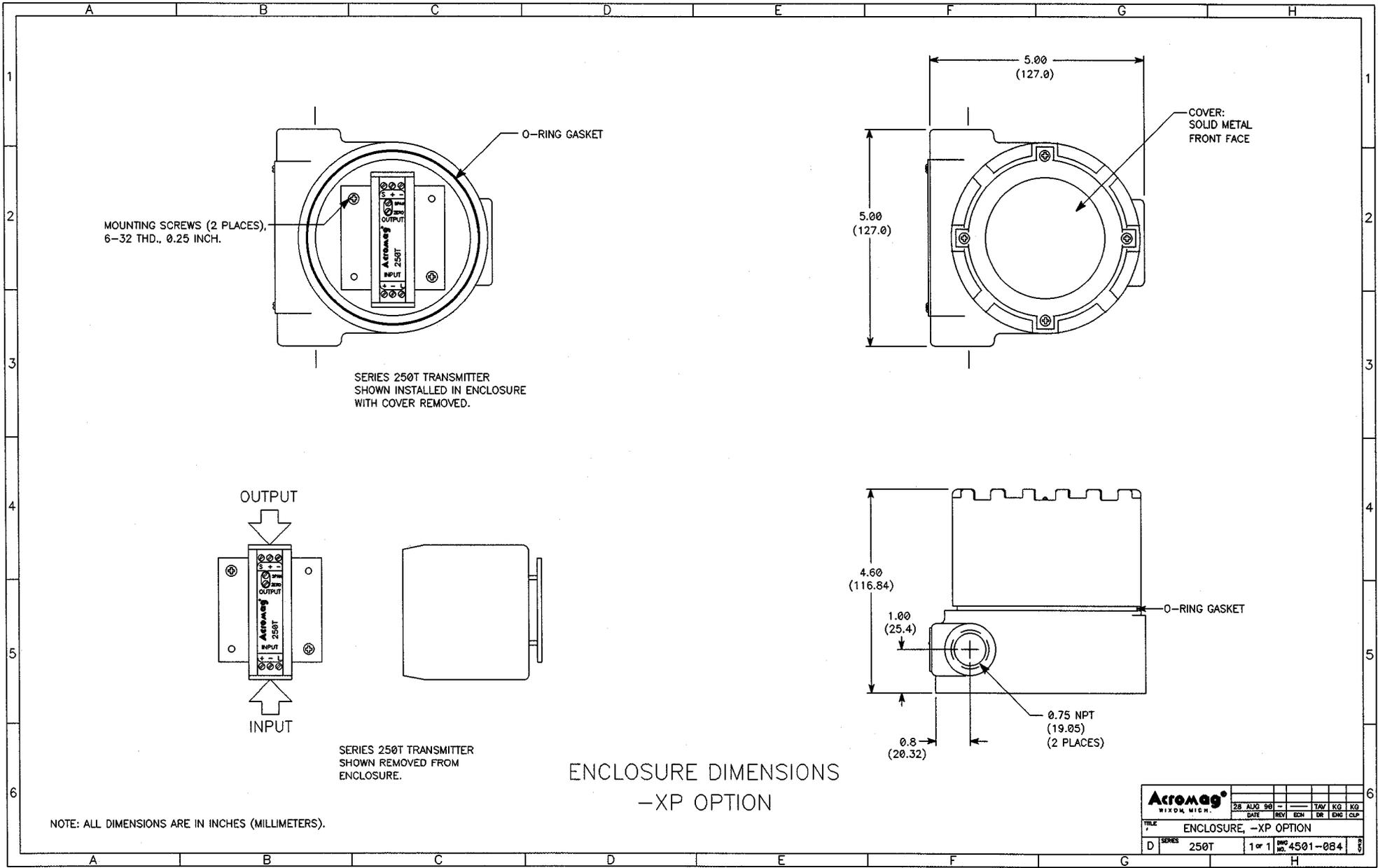
NOTE: ALL DIMENSIONS ARE IN INCHES (MILLIMETERS).

ENCLOSURE DIMENSIONS
-4X OPTION

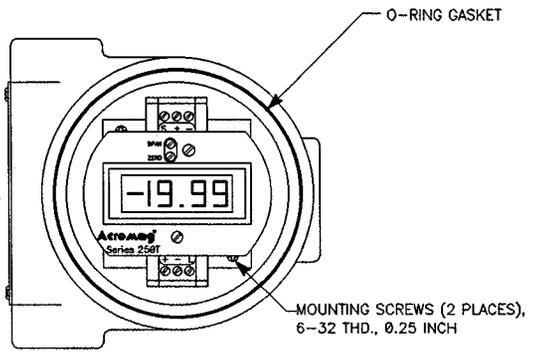
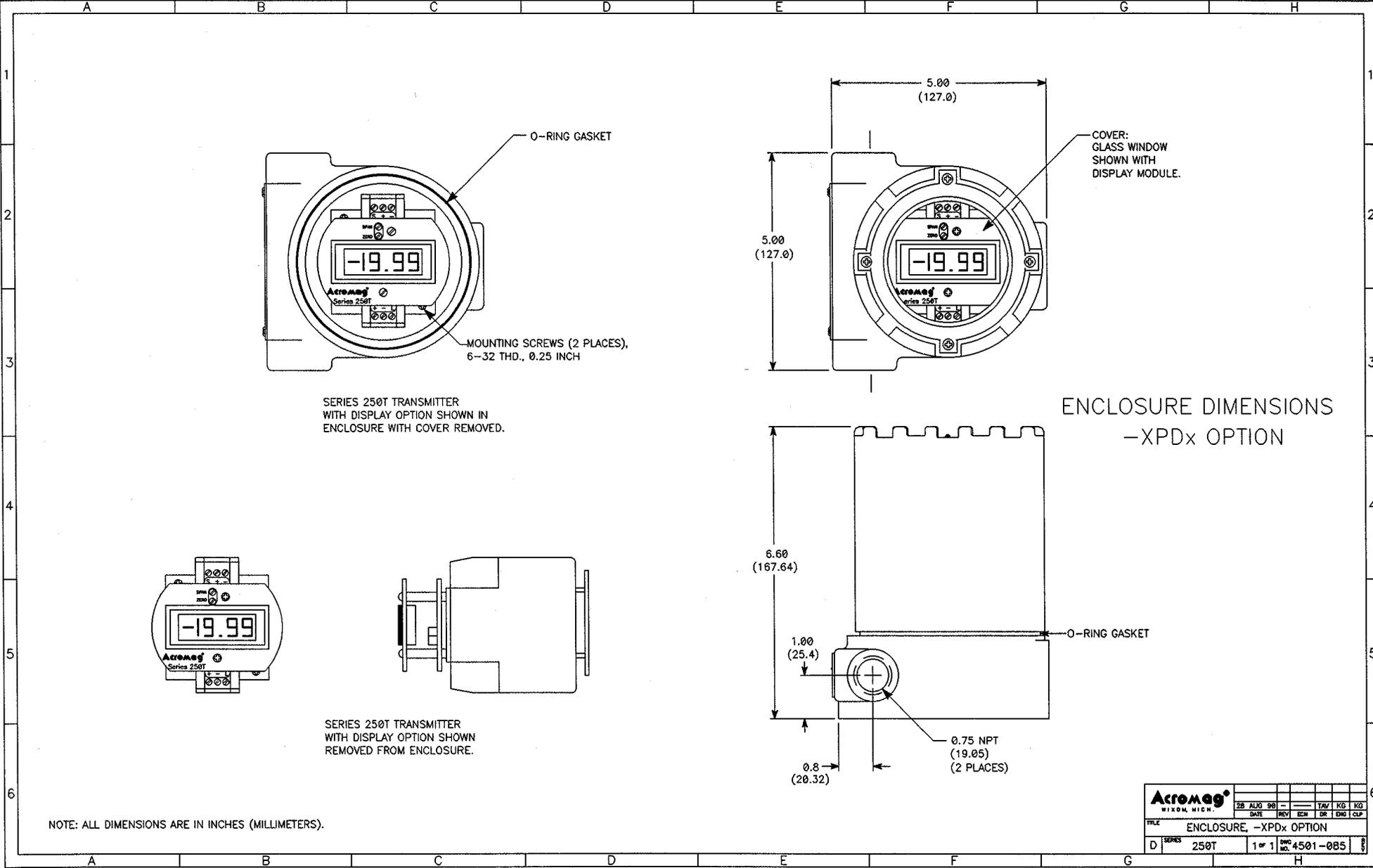
Acromag WIXOM, MICH.		17 MAR 93	A	03C007	TAV	KG	NG
TITLE		28 AUG 90	-	-	TAV	TH	-
ENCLOSURE, -4X OPTION		DATE	REV	ECN	DR	ENG	CLP
D	SERIES 250T	1 of 1	000	4501-086	A	B	



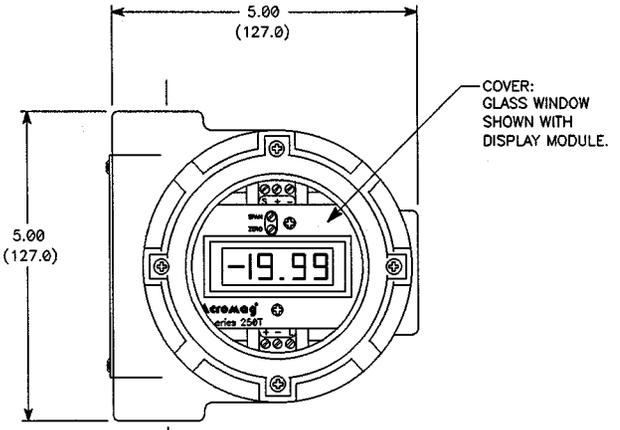
Acromag WILSON, MICH.		17 MAR 93	A	03C007	TAV	KG	KG
TITLE		28 AUG 90	-	-	TAV	KG	KG
ENCLOSURE, -4XDx OPTION		DATE	REV	IGN	DR	ENG	CLP
D	SERIES 250T	1 of 1	DWG NO.	4501-087	A	B	



Acromag WIXOM, MICH.		28	AUG	90	-	-	TAV	KG	KG
TITLE		DATE	REV	ECN	DR	ENC	CLP		
ENCLOSURE, -XP OPTION									
D	SERIES	250T	1	of	1	ENC NO.	4501-084		



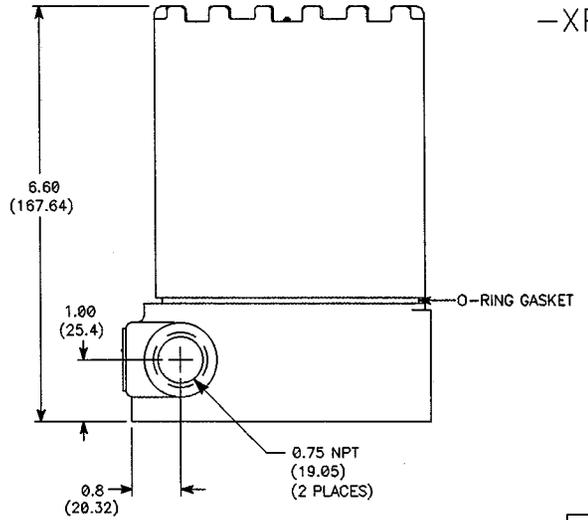
SERIES 250T TRANSMITTER
WITH DISPLAY OPTION SHOWN IN
ENCLOSURE WITH COVER REMOVED.



ENCLOSURE DIMENSIONS
-XPDx OPTION



SERIES 250T TRANSMITTER
WITH DISPLAY OPTION SHOWN
REMOVED FROM ENCLOSURE.



NOTE: ALL DIMENSIONS ARE IN INCHES (MILLIMETERS).

Acromag WIXOM, MICH.		28	AUG	90	-	TAV	KG	KG
DATE	REV	ECN	DR	ENG	CLP			
TITLE ENCLOSURE, -XPDx OPTION								
D	SERIES	250T	1	OF	1	DWG	NO.	4501-085