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# Installation Notes TMT84, TMT85

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- FM Approved Apparatus must be installed in accordance with manufacturer's instructions.
- Use supply wires suitable for 5°C above surroundings.
- Only simple apparatus should be terminated to the sensor connection.
- Simple apparatus are components as defined by the NEC (1.2 V, 0.1 A, 0.25 mW or 20 μJ).
- Warning: Substitution of components may impair intrinsic safety or suitability for Class I, Division 2.

#### Class I / Div. 1 / Groups ABCD EXPLOSION PROOF **DUST IGNITION PROOF** Class II, III / Div. 1 / Groups EFG DIP

- Install per National Electrical Code (NFPA 70)
- For Group A, seal all conduits within 18 inches of enclosure; otherwise, conduit seal not required for compliance with NEC 501.5(A)(1)(1).
- All conduits must be assembled with a minimum of five full threads engagement.
- Temperature sensor assembly must be FM approved for appropriate area classification.
- Class II use a dust tight seal
- Keep tight when circuits alive

#### NONINCENDIVE

## Class I / Div. 2 / Groups ABCD

AEx nA II

- Intrinsic safety barrier not required. Vmax ≤ 35 V DC.
- Warning: Do not disconnect equipment unless power has been switched off or the area is known to be nonhazardous.
- Nonincendive field wiring installation

The Nonincendive Field Wiring Circuit Concept allows interconnection of Nonincendive Field Wiring Apparatus with Associated Nonincendive Field Wiring Apparatus or Associated Intrinsically Safe Apparatus or Associated Apparatus not specifically examined in combination as a system using any of the wiring methods permitted for unclassified locations, when

 $Voc \le Vmax$ ,  $Ca \ge Ci + Ccable$ ,  $La \ge Li + Lcable$ .

Transmitter Nonincendive Field Wiring parameters are as follows: Ui or Vmax  $\leq$  35 V DC Ci  $\leq$  5 nF Li  $\leq$  10  $\mu$ F For these current controlled circuits, the parameter Imax is not required and need not to be aliqned with parameter Isc and It of the Associated Nonincendive Field Wiring Apparatus or Associated Apparatus.

- Warning: Explosion Hazard- Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous
- The transmitter is suitable to be installed according the FNICO concept.

### NOTE

When the product is installed as a FNICO installation use drawing 34 02 00 111.

| 7 |                            | Approved              | Date (yyyy-mm-dd)       | Drawing No.        | Dwg.rev. | Revision no.       | Revision date (yyyy-mm-dd) | Name   | Material 7     | 1540295   |                                  | Л. |
|---|----------------------------|-----------------------|-------------------------|--------------------|----------|--------------------|----------------------------|--------|----------------|-----------|----------------------------------|----|
|   |                            | Pfanzelt              | 2011-06-08              | 34 02 00 113       | _        | -                  | -                          | -      | XA02281T/09    | /EN/01.20 | Endress + Hauser 🖾               |    |
|   | Volume (mm³)               | Designed              | Date (yyyy-mm-dd)       | Unit               | Scale    | Title              |                            |        |                |           |                                  |    |
|   |                            | Pfanzelt              | 2011-06-06              | iTEMP TMT84, TMT85 | 1:1      | CONTROL DRAWING FM |                            | Series |                |           |                                  |    |
|   | Refer to protection notice | Edge of working parts | Geometrical tolerancing | Part No.           | Format   | XP, NI, D          | IP .                       |        | Objekt version | Sheet     | Endress + Hauser Wetzer          |    |
|   | ISO 16016                  | ISO 13715             | ISO 2768-mH-E           | -                  | A4       | 7 ,, 2             |                            |        |                | 1 of 1    | GmbH+Co. KG Nesselwang / Germany |    |

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