

<b>440-0018-731</b>		Sht. 1 of 2	APP'D BY SGA
ISSUE	EDO NO.	APP'D	DATE
3	2-16-102	THP	2-1-16
4	11-17-100	SGA	11-3-17

## EMC Installation Supplement

- A. **Purpose:** To provide additional information that is required to be in compliance with the CE mark of conformity and 2014/30/EU Directive.
- B. **Definitions:**
1. I/O Sensor/Measurement/Control Port -- Any port which provides level measurement, control, and/or DC power.
  2. I/O AC Power -- Any port which provides AC main power to the instrument.
  3. Housing -- Any enclosure where the sensor and transmitter can be located.
  4. Non-metallic applications -- any application where the sensor is not surrounded by a metallic surface.
- C. **Installation Specifics:**

### 1. I/O Sensor/Measurement/Control Ports

- Wiring must be twisted pair and run in conduit or an equivalent shielded environment (i.e. shielded braid, cable, etc.).
- The shield terminations must be grounded at the source and destination ports.
- Wiring must be run separate from AC main power and/or any signal exceeding 75 volts DC or 50 volts AC.

### 2. I/O AC Power Port

- Wiring must be run either in conduit or an equivalent shielded environment (i.e. shielded braid, cable, etc.).
- The shield terminations must be grounded at the source and destination ports.

### 3. Remote Installations

- Sensor port must be connected to the transmitter port by one of the following means:
  - 401-16 Probe Filter
  - Coaxial cable run in conduit.
  - Triaxial cable.

### 4. Housings

- All installations require the sensor and transmitter to be located in a closed shielded/metal housing (i.e. typically explosion-proof or weatherproof housings meet this requirement)

### 5. Sensor Type/Mounting

- In all non-metallic applications the sensor must have a full concentric shield (i.e. needs to be considered when ordering).
- The sensor/sensor conduit must be grounded locally either to a metal support structure or an equivalent earth ground.

#### D. Comments:

- Any deviation from these installation requirements should be reviewed with factory, prior to implementation
- These instructions are essential to insure conformity with specified EC directives.