



Application Bulletin

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Suggested Specification for the INCON 1265 – 1250B Voltage Regulator Position Monitor

General:

Local and remote Voltage Regulator position indication will be provided by a Synchro style rotary position transmitter and a digital position monitor. The monitor will be capable of display, analog output, and serial output to interface with operators, field personnel and SCADA.

Transmitter:

The Synchro transmitter shall use 120VAC (nominal) voltage for rotor excitation, with its stator windings producing up to 90 VAC depending upon angular displacement of the rotor. Mounting configuration shall be: Synchro mounted on a replacement to the existing glass lens on the local indicator dial. The transmitter must offer absolute position sensing with no position loss during power interruption.

Indicator:

- A. The monitor will be powered by the same 120 VAC (nominal) as the transmitter. The monitor shall provide an on-board LED local display of tap position. This 5 digit display shall be programmable for various step configurations used in load tapchangers, including those with single and multiple neutral positions, or linear scaled rotary position.
- B. The monitor shall provide scaled current analog output for SCADA interface. This output shall be 0 to +1mA
- C. Output modes, supported by the field software configuration will be provided to produce a smooth linear analog output or a stepped analog output.
- D. A simulated "drag hand" feature will be available to track the highest and lowest positions reached by the LTC.
- E. The monitor shall be equipped for programming through front panel buttons or through serial RS-232 communication from a computer terminal using ASCII protocol.
- F. The monitor shall have a security lockout to prevent unauthorized programming changes.

Manufacturer and Model Numbers:

- A. The synchro transmitter shall be an INCON model 1265 – X (with 'X' being the diameter of the Dial Face).
- B. The indicator shall be an INCON model 1250B-0-S Programmable Position Monitor.