



APPLICATIONS

- Transformer load tap changer position
- Works with virtually all transformer LTC's
- Single-phase voltage regulator position

BENEFITS

- Proven reliability – many in utility and industrial operations for over 20 years
- Maintenance-free
- Can be retrofitted to older LTCs with existing synchros
- Easy installation and programming
- Flexible communication options



1250-LTC®

The Model 1250-LTC provides business critical LTC Maintenance Data to assist in making informed decisions, while continuing to provide highly accurate local and remote indication of load tap changer position

CAPABILITIES

- Provides absolute position feedback
- Tap change displacement (position variation, 0.1 degree resolution) – with alarm
- Total operations count – with alarm
- Number of tap changes "up to" or "down to" each tap – with alarm
- Number of consecutive tap changes in one direction – with alarm
- Number of days since first or last change to highest and lowest tap (draghands)
- Number of days since passing through neutral – with alarm
- Unstable and loss of transmitter signal detection – with alarm
- Momentary relay acknowledgement at each tap change
- High/Low tap alarm limits

FEATURES

- Interfaces with PLCs and PC-based SCADA systems
- Elapsed time clock
- Full duplex RS-232 serial communication or addressable RS-485 multi-drop communication
- Programmable via the serial port
- 2 ea., Form A dry contact relays
- Proportional stepped analog output
- ASCII or MODBUS protocols
- Highly visible 5 digit LED display
- Small size fits in 1/8 DIN panel cut-out
- Easily replaces the 1250B, using the existing enclosure & wiring

1250-LTC

Load Tap Changer Condition Monitor & Position

Specifications

GENERAL

Input Signal	Synchro (5 wire) 90 V maximum
Resolution	$\pm 0.001\%$ of full scale or 6 arc minutes
Accuracy	$\pm 0.02\%$ of full scale maximum (0.01% typical)
Temperature Drift	$\pm 0.01\%$ per $^{\circ}\text{C}$
Operating Temp.	0°C to 55°C (standard)
Humidity	90% non condensing, maximum
Weight	24 oz.
Voltage	117/234 $\pm 10\%$
Frequency	47 - 63 Hz
Load	8 Watts, maximum

DISPLAY

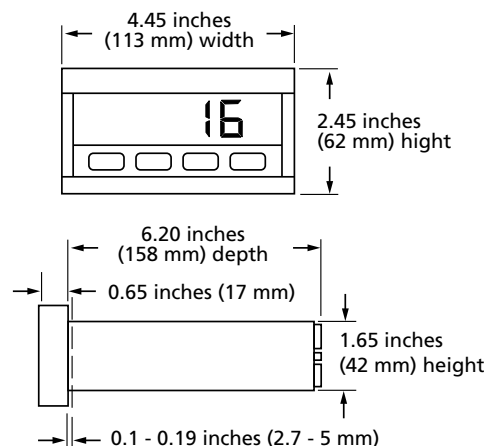
Type	5-digit LED
Digit Height	0.56 inch (14.2mm)
Viewing Distance	23 feet

ANALOG OUTPUT

Outputs	± 1 mA, 0-1 mA, 0-2 mA, 4-20 mA *
Compliance	10 Volts (0-1 mA, ± 1 mA, 0-2 mA) 500 Ohms (4-20 mA)
Non-Linearity	$\pm 0.1\%$ of full scale
Resolution	12 bits ($\pm 0.025\%$ of full scale)

RELAYS

Contact Rating	3A@125/250 VAC (resistive), 30 VDC
----------------	------------------------------------



Panel cut out min.: 1.653 (42 mm) x 3.543 (90 mm) (+2/-0 mm)

Panel thickness: 0.1 (2.7 mm) to 0.19 (5.0 mm)

Ordering Information

1250-LTC-U-W-Y-ZZZ

U = Output Options	0 (0-1 mA) 2 (0-2 mA) 1 (± 1 mA) 4 (4-20 mA)*
W = Relay/Isolation Options	R - Relay Limits I - Input Isolation
Y = Comm. Options	S - RS-232 M - RS-485
ZZZ = Line Voltage	120 (120 VAC) or 240 (240 VAC)

* 4-20 mA requires external loop power or model 1945 power supply.

ACCESSORIES

Model 1292	Synchro transmitter
Model 1292K	Transmitter w/bracket
Model 1292KS	Transmitter w/bracket and surge protection circuit
Model 1293	Flexible coupling shaft
Model 1932	Power Line Conditioner
Model 1945	15 VDC loop power supply (For 4-20 mA analog output)
Model 1280	Surge protection module
Model RD-4	Remote display



BUSINESS CRITICAL



www.incon.com

PO Box 638, Saco, Maine 04072 ■ Tel: 800-872-3455 / 207-283-0156 ■ Fax: 207-283-0158



000-0111 Rev. C 03/10