Slidewire (resistive) Load Tap Changer Position Indicator

Model 1511-LTC

INCON®
INTELLIGENT CONTROLS

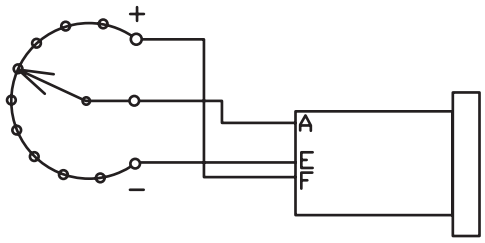
The INCON Model 1511-LTC programmable position monitor is a sophisticated microprocessor-based panel instrument.

Applications

The INCON Model 1511-LTC is ideal for On-Load Tap Changers that require accurate position measurement.

- Indicates tap position on transformers utilizing slidewire (resistive) transmitters.
- Provides visual and electrical indication of position.
- Input signals are filtered through a software algorithm, which keeps the display stable in noisy environments, but allows instant updates when tap position changes.
- Performs absolute local and remote position feedback.
- Simplified programming for uni-polar (0-32 taps) or bi-polar (-16 to +16 taps) applications.

Slide Wire



1511-LTC

Capabilites

The INCON Model 1511-LTC performs a number of functions to help improve system operation.

- Provides flexible, real-time, analog and digital outputs to interface with SCADA, PLCs and computers.
- Analog output is unaffected by noisy or intermittent input signals.
- Provides regulated 24 VDC slidewire power.
- Accepts a 0-24 VDC signal from a slidewire (resistive) transmitter.
- Provides programmable segmented position indication.
- Offers programmable relay outputs for alarm and control (optional).
- Raise (R) and Lower (L) indication.
- Remote display driver.

Features

- Extremely accurate signal conditioner.
- Analog and digital output.
- Program via computer using ASCII.
- Modbus protocol option.
- Draghand function to recall lowest and highest tap movements.
- Large five-digit LED display.
- Hard-wired security/lockout.
- Non-volatile storage of program parameters.
- Easy, menu-driven, set up through the front panel.

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Specifications

GENERAL

Input	0-24 volts direct current
Resolution	±0.001% of full scale
Accuracy	±0.02% of full scale maximum (0.01% typical)
Temperature Drift	±0.01% per ˚C
Operating Temp.	0˚ to 55˚C (standard)
Humidity	10% - 90% non condensing
Weight	24 oz.
Dielectric Test	1000 VDC for 1 minute, line to any other terminal
Voltage	117/234 ±10% VAC
Frequency	47-63 Hz
Load	8 Watts maximum
Transmitter Power	Internal 24VDC supply

DISPLAY

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

ANALOG OUTPUT

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

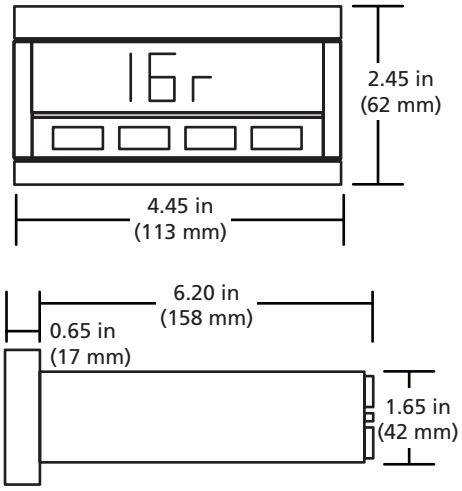
OPTIONAL HI/LO RELAYS

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

Optional Accessories

Model 1945	15VDC Loop Power Supply
Model 1283	Surge Protection Module
Model RD-4	Remote Display

Model 1511-LTC Dimensions



Panel cut out: 1.653 (42 mm) × 3.543 (90 mm)
Panel thickness: 0.1 (2.7 mm) to 0.19 (5.0 mm)

Ordering Information

1511-LTC-U-W-Y-ZZZ = options, see below

OPTIONS

U = Analog Output	**0** (0-1mA)	**2** (0-2mA)
	1 (±1mA)	**4** (4-20mA)*
W = Control	**R** - Hi/Low Relay Limits	
Y = Communications	**PB** - Parallel Data	
	S - RS-232	
	M - RS-485	
ZZZ = Line Voltage	**120** (120 VAC) or **240** (240 VAC)	

*Requires 1945 or Loop Power

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