

## FEATURES

- ❑ Universal or fixed input
- ❑ Large 4" displays
- ❑ Optional programmable alarm outputs
- ❑ Keyboard calibration
- ❑ Built-in transmitter power supply
- ❑ Programmable retransmission output
- ❑ Different power supply options
- ❑ Rugged industrial design

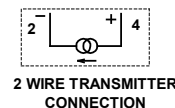
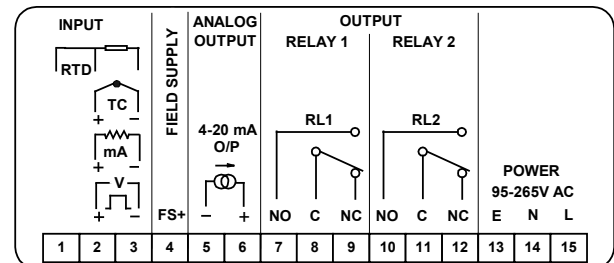


LD3500 is an advanced Microcontroller based single channel Process Indicator used for monitoring analog signals in the majority of industrial processes. This model has 4 digits 7 segment 4" LED display with red colour. The process indicator can accept analog inputs from RTDs, Thermocouples or current and voltage inputs. Optional single or dual alarm output is provided wherein the alarm type and value is programmable from the front keyboard. The indicator is calibrated for all the basic inputs and the calibration is not required to be changed if the input type is changed. However if recalibration is required due to any error then calibration can be done through keyboard. Optional isolated retransmission output can also be provided. This process indicator is designed for accurate measurement and display of pressure, flow, frequency, etc. LD3500 is suitable for a variety of applications in industrial controls and process control systems.

### INPUT TABLE:

INPUT TYPE		CODE - XX	
Linear	mA DC (Use 250Ω)	4 – 20 mA	00
		0– 20 mA	01
		Others	0X
	V DC	1 – 5 V	10
		0 – 5 V	11
		Others	1X
	mV DC	15– 75 mV	20
		0– 75 mV	21
		Others	2X
RTD PT100	PT100 1 Deg.C resolution	30	
	PT100 0.1 Deg.C resolution	31	
TC	J	40	
	K	41	
	T	42	
	E	43	
	B	44	
	R	45	
UNIVERSAL	Universal (Linear, RTD & TC)	U0	
RESISTANCE TAP	Tap Position	T0	
POTENTIOMETER	Pot input / Valve position	V0	
PULSE (Digital Input)	Pulse RPM	50	
	Frequency (non-isolated 5-8V)	51	

### BACK TERMINAL CONNECTION:



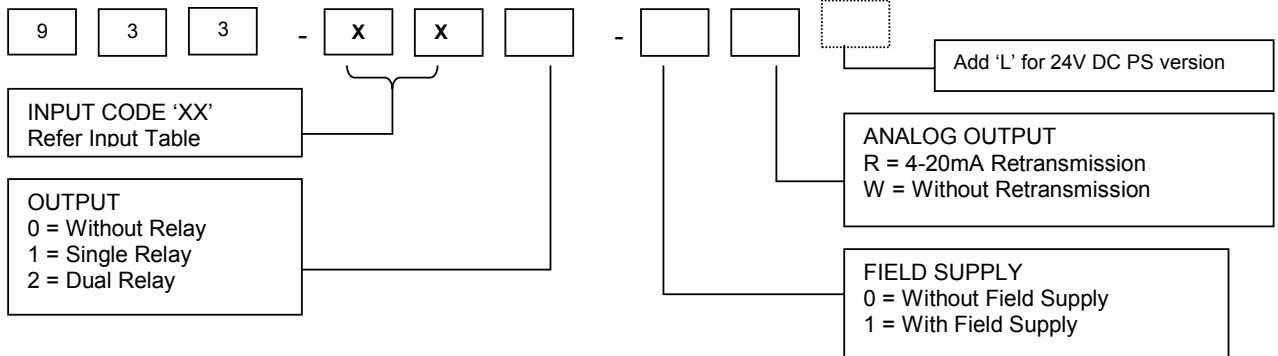
### NOTE:

- 1) Consult factory for 'Others'
- 2) For valve position indicator input potentiometer should be 1Kohm minimum

**SPECIFICATIONS:**

No. of channels	1
Inputs	Universal or Fixed inputs (Refer Table)
Input Connection	Rugged Screw type terminal, suitable for wire size ranging from 0.2-2.5sq.mm
Input Impedance	For Thermocouples & mV inputs: >1 MΩ DC Volts: >100 KΩ
Display	- 4 digit 7seg. Red LED of size 4", Range -1999 to 9999
Square root extraction	Provided built-in for linear inputs
Automatic Compensations	-Cold junction compensation for thermocouples -Wire resistance compensation for three wire RTDs.
Accuracy	+/- 0.1% of FS, +/- 1 digit for Linear inputs +/- 0.2% of FS, +/- 1 digit for others
Decimal Point	Programmable as 8888, 888.8, 88.88, 8.888 for Linear Inputs
Noise Rejection	-Common Mode 120dB or better -Series Mode 60dB or better
OUTPUT OPTIONS: 1. Alarm Output 2. Retransmission Output 3. Transmitter Excitation Voltage	1. Up to 2 alarms, 1 CO, 5A / 230 V AC resistive max. 2. Isolated 4 – 20mA Programmable 3. 24V DC/30mA max.
Battery Backup	EEPROM Nonvolatile Memory (Battery not required)
Power Supply	Universal 95 – 265V AC, 50Hz or 110 – 300 V DC OR 24V DC
Open Sensor Indication	'OPEN' or 'OR' where applicable.
PROTECTION Sensor Burn out Protection Set Point & Configuration Protection System Protection	Programmable alarm ON or OFF Password Protected – User & configuration menu Through hardware and software watch dog
ENVIRONMENT Operating Temperature Operating Humidity Storage Temperature	0 to +55 Deg. C Up to 95% non condensing -10 to +70 Deg. C
ENCLOSURE Mounting Housing External Dimension Weight	Wall mounting MS Powder coated 220 (H) × 410 (W) × 110 (D) mm 4.5Kg

**ORDERING CODE:**



**SAMPLE ORDER CODE**  
**933 – 001 – 1W**  
 4 – 20 mA DC, Single Alarm Relay, With Field Supply