PROGRAMMABLE INDICATOR

SLEEK 6010

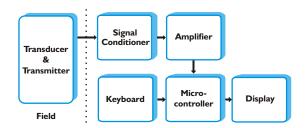
INTRODUCTION

Process indicators play an important part in any process industry. Quick and accurate measurement of a process parameter will improve the final product quality, reliability and reduce rejection. Process indication is therefore one of the prime considerations in any process industry. The Sleek 60 series is microcontroller based programmable process indicator designed for fast and accurate measurement. The instrument is designed using highly reliable electronic components. The process parameter is displayed in digits, which gives better resolution compared to analog indicator. The ESD Sleek 60 series accepts all types of Pt - 100, 0 - 20 mA as well as 4 - 20 mA as input. The instrument is immune to mechanical vibrations. Even the mounting position will not affect the measurement accuracy. The large bright



RED LED seven segment display allows long distance readability. Use of highly reliable electronic components with lowest temperature coefficient ensure long and trouble free service. The instrument is tested for its performance under various climatic conditions. Wide ranges of measurements are available depending on the sensor used.

PRINCIPLE OF OPERATION



The Sleek 60 series is based on the principle of high input impedance amplifier feeding an ADC. The signal from the transducer is fed to a sensor compensation circuit, where automatic ambient compensation in case of thermocouple & lead resistance compensation in case of Pt-100 is achieved. Duly compensated signal is fed to a signal conditioning amplifier, output of which is given to digital display. The microprocessor then converts the signal into the range selected by the user and displays the value of the process parameter accordingly.

APPLICATION

The Sleek 60 series process indicators can be used in almost any industry, laboratory etc. where accurate process value measurement is needed to be carried out.

FEATURES

- ✓ Proven trouble free field performance
- ✓ Highly compact
- ✓ Dust and vermin proof enclosure with epoxy powder coating
- ✓ LED display gives better readability at long range.
- √ Fast response time
- ✓ Highly accurate
- ✓ Available in different DIN std. cutouts
- ✓ Programmable range
- ✓ Decimal selection facility
- ✓ Maximum MTBF and minimum MTTR
- √ Feather touch push button
- ✓ Wide supply variation and environmental band
- ✓ User friendly programming



SPECIFICATIONS

Model : Sleek 6010

Ranges : Refer chart below (other on demand)

: PT 100 / 4 - 20 mA Input

Indication : 999.99 12.5 mm RED LED display

Indication accuracy : +/- 0.1 % of full scale +/- I digit Least count : Refer chart below (other on demand) : 230 V AC, +/- 10 %, 50 Hz with earth Power supply

Relative humidity : Less than 90 % non condensing

: 0 to 55°C Ambient temperature

Accuracy deviation due to

: +/- 0.002 % /°C, ref at 25°C a) Temperature change

b) Supply variation : +/- 0.001 % / V

Sensor break indication : OPEN

: By software using keypad Recalibration (if reqd) **Programming** : Using 4 keys membrane keypad.

Default password is 134

: 5 VA Power consumption

: 24 V DC @ 30mA (only for 4-20mA) Transmitter supply Front facia : ABS plastic having size 96 x 48 mm

: 92 x 45 mm Panel cutout Mounting : Flush panel

Enclosure : Mild steel CRCA sheet with powder

Termination : Screwed type suitable for 2.5mm² wire

Weight : 700 grams approximately

Optional

A)Retransmission o/p : Isolated 4 to 20mA proportional to

process value

Resolution : 10 bit (0.016 mA step change)

: Maximum 500 ohms Load resistance

B)Serial interface : Isolated RS 485(2 wire)/ RS 232

: Modbus RTU Protocol

Chart

Input	Std. Ranges in °C	Least count
Pt-100	-100 to 200 0 to 400	0.01°C
mA / mV	Programmable from -9999 to 99999	Settable

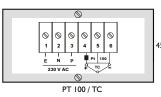
INSTALLATION



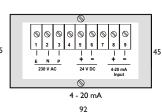
96



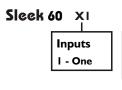
■ Depth including terminals



92



ORDERING INFORMATION



X2 Panel Cutout 0 - 92 x 45 - 92 x 92



2 - 0 to 20 mA 3 - 4 to 20 mA 4 - Other



0 - -100 to 200°C I - 0 to 400°C Other

X5 **Power Supply** I - 230 V AC 2 - 110 V AC

3- 24 V AC 4- 24 V DC 5 - Other

Ordering eg. Sleek 6010 - 311 Prgrammable Indicator Sleek 60 Input One (1) Panel cutout - 92 x 45 mm (0)Input 4 to 20 mA (3)

 0°C to 400°C Range (1)Power Supply -230 V AC (1)

FRONT END

ON OFF Controllers

SO SELECT

BACK END

✓ Pt - 100

- Thermocouples
- Thermowells
- ✓ Compensating Cables

SAME RANGE

Portable Indicators

- **Dual Channel Indicators**
- Supersize Indicators
- Field Mounting Indicators
 - √ Flameproof Indicators
- Loop Powered Indicators ✓ Auto Manual Station

Process Scanners Automation Panels

sales@esd-india.com

www.esd-india.com

✓ PI Controllers

Phone: (020) 29710000

"My powers are ordinary. Only my application brings me success.."