



48 x 96mm

Features :

- 4 Digits, 7 Segment LED Single Display
- LED Status Indicator : Alarm ON
- Universal Input
- °C / °F Selectable
- 2 Alarm Outputs
- 24V DC Sensor Supply
- Retransmission Output

Certification :

Display Specifications

Display	4 Digits 7 Segment LED Single Display Height of Display 0.5"
LED Indications	Alarm ON (2 Nos)

Input Specifications

Inputs	Thermocouple (J, K, T, R, S) RTD (PT100) DC Analog inputs (-5 to 56mV, 0 to 10V, 0/4 to 20mA)
Resolution	1 / 0.1° for TC / RTD only (Fixed 1° resolution for R & S type TC) Decimal point position selectable : 1 / 0.1 / 0.01 / 0.001 for analog input
Indication Accuracy	For TC inputs : 0.25% of F.S. ±1° For R & S inputs : 0.5% of F.S. ±2° (20 min of warm up time for TC inputs) For RTD input : 0.1% of F.S. ±1° For Analog inputs : ±0.5% of F.S., ± 1 digit (F.S. = Full Scale)
Temperature Unit	°C / °F selectable

Output Specifications

Alarm	
Relay Contact (SPDT)	5A @ 250V AC resistive
Retransmission	0 / 4 to 20 mA DC, 0 to 5V DC, 0 to 10V DC
Sensor Supply	24V DC, 30mA

Functional Specifications

Alarms	2
Alarm Modes	High alarm, Low alarm, Band, Fail output and Fault diagnosis
Hysteresis	0.1 to 99.9°
Annunciator	Programmable
Reset Action	Automatic or Latched

Auxiliary Supply Specifications

Supply Voltage	90 to 270V AC / DC (50 / 60Hz) Optional : 24V DC
Power Consumption	6 VA max @ 230V AC

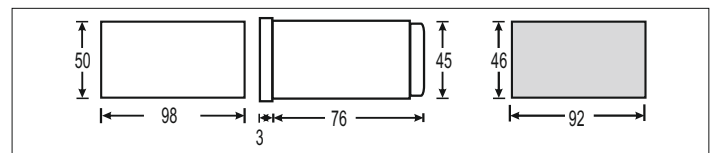
Environmental Specifications

Temperature	Operating : 0 to 50°C (32 to 122°F) Storage : -20 to 75°C (-4 to 167°F)
Humidity (non-condensing)	85% RH
Weight	220 gms

Mechanical Specifications

Mounting	Panel
Weight	220 gms

Dimensions



Terminal Connections

1) 230V SUPPLY

2) 24V SUPPLY

TEC Cable Size (mm²): 1.5-2.5 ; Stud Hole for Lug (mm): 3.5 ; Tightening Torque (N-m): 0.8

Compliance

Applicable EMI / EMC Standards		
Product Standard : IEC 61326-1		
Category		Standards Compliance
ESD Immunity	IEC 61000-4-2	Level III
Surge Immunity	IEC 61000-4-5	+/- 2 kV common mode, +/- 1 kV differential mode
Radiated Susceptibility	IEC 61000-4-3	Level III, 80 to 1000MHz Level II, 1.4GHz to 2GHz Level I, 2GHz to 2.7GHz
Conducted Susceptibility	IEC 61000-4-6	Level II
Voltage Dips and Interruptions	IEC 61000-4-11	Dips : 0% residual voltage / 1 cycle (Criteria B), 40% residual voltage / 10 cycles 50Hz / 12 cycles 60Hz (Criteria C) 70% residual voltage / 25 cycles 50Hz / 30 cycles 60Hz (Criteria C) Interruptions : 0% residual voltage / 250 cycles 50Hz / 300 cycles 60Hz (Criteria C)
Conducted Emission	CISPR-11	
Radiated Emission	CISPR-11	
Electrical Fast Transient	IEC 61000-4-4	Level III

Ordering Information

PRODUCT CODE	RETRANSMISSION	COMMUNICATION (RS485)	SUPPLY VOLTAGE	CERTIFICATION
PIC152A-VI	Universal	---	90 - 270V AC / DC	---
PIC152A-VI-CE	Universal	---	90 - 270V AC / DC	CE
PIC152A-VI-C	Universal	YES	90 - 270V AC / DC	---
PIC152A-VI-24V	Universal	---	24V DC	---
PIC152A-VI-C-24V	Universal	YES	24V DC	---

Mounting Accessories (Supplied with units)

Clamp side with screw assembled

Input Sensor Ranges (For TC / RTD Inputs)

Sensor Type	Resolution	Ranges	
		1	0.1
PT100	°C	-150 to 850	-150 to 850
	°F	-238 to 1562	-199 to 999
J	°C	-199 to 750	-199 to 750
	°F	-328 to 1382	-199 to 999
K	°C	-199 to 1350	-199 to 999
	°F	-328 to 2462	-199 to 999
T	°C	-199 to 400	-199 to 400
	°F	-328 to 750	-199 to 750
R & S	°C	0 to 1750	N/A
	°F	32 to 3182	N/A



SPECIFICATIONS

DISPLAY

- 4-digit (7 segment LED) 0.5" height Display Messages:
 "Sbr" - a) Appears when measurement exceeds display scaling range(9999) for signal inputs
 b) When open sensor is detected. (Applicable for TC/RTD/-5 to 56mV)
 "Sre" a) Appears when measurement is below display scaling range (-1999) for signal inputs.
 B) Sensor reverse condition occurs. (Applicable for TC/RTD/mV)

Display alternating between PV and ALrM with LED of respective alarm flashing.
 (Programmable annunciator option)
 LED Status Annunciators - Alarm ON (2 nos)

POWER

85 to 270V AC (AC : 50 or 60Hz), 4VA Max
 24V DC, 4VA

SETTINGS

Via three keys on front panel.

MEMORY

Nonvolatile EEPROM retains all programmable parameters and values.

MAIN SENSOR INPUT (Universal)

Thermocouple inputs

- J : -200 to 750°C
- K : -200 to 1350°C
- T : -200 to 400°C
- R : 0 to 1750°C
- S : 0 to 1750°C

RTD input (2 wire or 3 wire)

PT100: -100 to 850°C

Signal inputs

- mV (linear) : - 5 to 56mV
- Voltage : 0 - 10V DC
- Current : 0 - 20mA DC

INDICATION ACCURACY

- TC Input : 0.25% of Span ±1°C (20min.Warmup)
- R&S Input : 0.5% of Span ±2°C (20min.Warmup)
- RTD Input : 0.1% of Span ±1°C

Signal input : 0.5% of FS

ALARM OUTPUTS

- 2 nos : Relay output : 5A @ 250V AC or 24V DC
- Alarm modes - Alarm High, Alarm Low, Band, Fault Hysteresis - Programmable.
- Annunciator - Programmable.
- Reset Action - Programmable : automatic or latched.
- Standby(Hold) - Programmable : enable or disable.

SENSOR SUPPLY

24V DC supply to power the sensor (30mA)

LINEAR DC OUTPUT

Re-transmission : 0 to 20mA / 4 to 20 mA or 0 to 10V / 0 to 5V (Programmable)

Update rate : 100msec.
 Accuracy: 0.25% of FS

ENVIRONMENTAL CONDITIONS

- Operating Range : 0°C to 50°C
- Storage Range : -20°C to 75°C
- Humidity : 85% max.

ISOLATION BREAKDOWN RATINGS

AC line with respect to all inputs and outputs : 2000 Volts. All other inputs and outputs with respect to relay contacts : 2000V AC

CONNECTION

Wire clamping screw terminals

WEIGHT

220 grams

SAFETY PRECAUTIONS

All safety related codifications ; symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If the equipment is not handled in a manner specified by the manufacturer it might impair the protection provided by the equipment.

CAUTION : Read complete instructions prior to installation and operation of the unit.

CAUTION : Risk of electric shock.

WIRING GUIDELINES

CAUTION :

1. To prevent the risk of electric shock power supply to the equipment must be kept OFF while doing the wiring arrangement.
2. Wiring shall be done strictly according to the terminal layout with shortest connections. Confirm that all connections are correct.
3. Use lugged terminals to meet M3 screws.
4. To eliminate electromagnetic interference use of short wire with adequate ratings and twists of the same in equal size shall be made.
5. Cable used for connection to power source, must have a cross section of 1mm² or greater. These wires shall have insulation capacity made of at least 1.5KV.

MAINTENANCE

1. The equipment should be cleaned regularly to avoid blockage of ventilating parts.
2. Clean the equipment with a clean soft cloth. Do not use Isopropyl alcohol or any other cleaning agent.

INSTALLATION GUIDELINES

CAUTION :

1. This equipment, being built-in-type, normally becomes a part of main control panel and in such case the terminals do not remain accessible to the end user after installation and internal wiring.
2. Conductors must not come in contact with the internal circuitry of the equipment or else it may lead to a safety hazard that may in turn endanger life or cause electrical shock to the operator.
3. Circuit breaker or mains switch must be installed between power source and supply terminals to facilitate power 'ON' or 'OFF' function. However this switch or breaker must be installed in a convenient position normally accessible to the operator.

CAUTION :

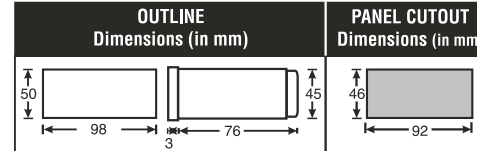
1. The equipment shall not be installed in environmental conditions other than those mentioned in this manual.
2. Fuse Protection : The equipment does not have a built in-type fuse. Installation of external fuse of rating 275V AC/1Amp for electrical circuitry is highly recommended.

3. Thermal dissipation of equipment is met through ventilation holes provided on chassis of equipment. Such ventilation holes shall not be obstructed else it can lead to a safety hazard.
4. The output terminals shall be strictly loaded to the manufacturer specified values/range.

MECHANICAL INSTALLATION

For installing the controller

1. Prepare the panel cutout with proper dimensions as shown



2. Remove clamp from the controller and push the controller into the panel cutout. Secure the controller in its place by pushing the clamp on rear side.
3. For proper sealing, tighten the screws evenly with required torque.

CAUTION :

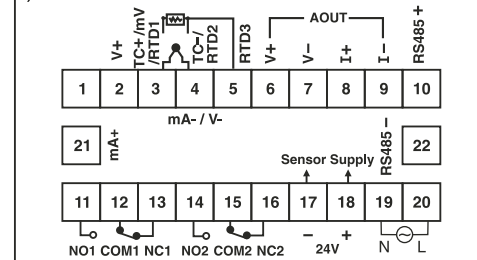
The equipment in its installed state must not come in close proximity to any heating sources, caustic vapors, oils, steam, or other unwanted process by-products.

EMC Guidelines:

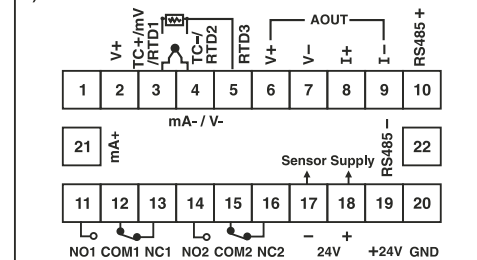
1. Use proper input power cables with shortest connections and twisted type.
2. Layout of connecting cables shall be away from any Internal EMI source.

TERMINAL CONNECTIONS

1) 230V SUPPLY



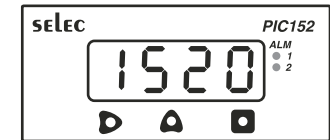
2) 24V SUPPLY



TERMINAL	SYMBOL	DESCRIPTION
2	V+	Signal I/P 0 to 10 V
3	TC+/RTD1/mV	Thermocouple I/P +
4	TC- / mA-/V-/RTD 2	Thermocouple I/P -
5	RTD 3	Terminal for 3wire RTD
6	V+(Aout)	Analog VTG O/P (+)
7	V-(Aout)	Analog VTG O/P (-)
8	I+(Aout)	Analog CURR O/P (+)
9	I-(Aout)	Analog CURR O/P (-)

10	RS485+	RS485 Communication (+)
11	NO1	NO of Relay 1
12	COM1	COM of Relay 1
13	NC1	NC of Relay 1
14	NO2	NO of Relay 2
15	COM2	COM of Relay 2
16	NC2	NC of Relay 2
17	Sensor Supply (-)	-Ve of Sensor Supply
18	Sensor Supply (+)	+Ve of Sensor Supply
19	N	Neutral
20	L	Live
21	mA +	Signal input 0-20mA
22	RS485-	RS485 Communication (-)

FRONT PANEL DESCRIPTION



Functions	Key press
To enter or exit program mode	▶ Press for 3 seconds
To change levels.	▲ Press Once
To increase or decrease the value of a particular function.	◀ Press Once
To view next function.	◻ key once

NOTE : The unit will autoexit program mode after 60 seconds of inactivity.

PROGRAMMING OF LEVELS

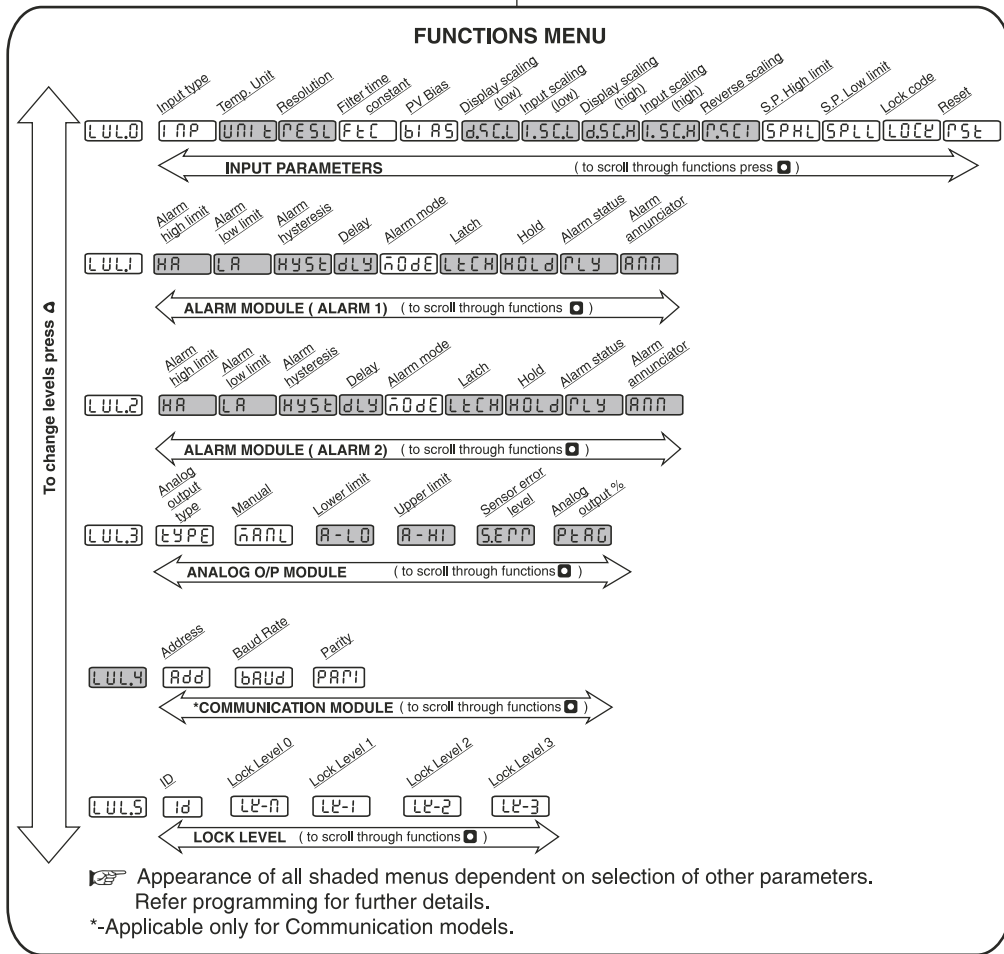
PROGRAMMING OF LEVEL 0

KEY PRESS	DISPLAY	DESCRIPTION
Press ▶ For 3 Sec	LU.LO	

Press ◻ key to select input sensor type

Default setting : J

Display	LU.P	for 1sec	Input sensor selection
Press ▲	J		J (-200 to 750°C)
Press ▲	K		K (-200 to 1350°C)
Press ▲	T		T (-200 to 400°C)
Press ▲	R		R (0 to 1750°C)
Press ▲	S		S (0 to 1750°C)
Press ▲	PT100		PT100 (-100 to 850°C)
Press ▲	mV		mV (linear) -5 to 56mV
Press ▲	10V DC		10V DC
Press ▲	20mA DC		20mA DC



KEY PRESS	DISPLAY	DESCRIPTION
Press ◀ key to select Temperature unit		Default setting : °C NOTE : This parameter is not prompted if analog input is selected.
	Display UNIT for 1 sec.	Temperature Unit
	°C	Value displayed in °C
Press ▶	°F	Value displayed in °F
Press ◀ key to select Resolution		Default value : 1 NOTE : This parameter is not prompted if input is R, S type thermocouple.
	Display RESL for 1 sec.	Resolution
	1	Range.: 1 / 0.1 for TC / RTD
Press ▶	0.1	1 / 0.1 / 0.01 / 0.001 for AIN
Press ◀ key to select Filter time constant		Default value : 1sec.
	Display FEC for 1 sec.	Filter time constant *
Press ▶	1	Range : 1 to 99 sec.
		to change value

KEY PRESS	DISPLAY	DESCRIPTION
Press ◀ key to select PV bias		Default value : 0.0
	Display BIAS for 1 sec.	PV bias *
Press ▶	0.0	Range : 1)-20.0 to 20.0 (For TC/RTD) 2)-20.0 to 20.0 (For V/I/mV) Independent of Decimal Point
		to change value

KEY PRESS	DISPLAY	DESCRIPTION
Press ◀ key to select Display value scaling point1		Default value : 0 NOTE : This parameter is not prompted if TC/RTD input types are selected
	Display DSCL for 1 sec.	Display value scaling point low (DSCL) *
Press ▶	0	Range : -1999 to DSCH For AIN display as per decimal point selected.
		to change value

KEY PRESS	DISPLAY	DESCRIPTION
Press ◀ key to select input value scaling point 1		Default value : 0.00 NOTE : This parameter is not prompted if TC/RTD input types are selected
	Display ISCL for 1 sec.	Input value scaling point low (ISCL) *
Press ▶	0.00	Range : 0.0mA / -5mV / 0.0 V to ISCH (default value changes as per analog input selected)
		to change value
Press ◀ key to select Display value scaling point 2		Default value : 9999 NOTE : This parameter is not prompted if TC/RTD input types are selected
	Display DSCH for 1 sec.	Display value scaling point high (DSCH) *
Press ▶	9999	Range : DSCL to 9999 For AIN display as per decimal point selected.
		to change value

Note : * mark explained in the user guide.
AIN - Analog Input

KEY PRESS	DISPLAY	DESCRIPTION
Press ◀ key to select Input value scaling point 2		Default value : 20.0mA NOTE : This parameter is not prompted if TC/RTD input types are selected
	Display ISCH for 1 sec.	Input value scaling point high (ISCH) *
Press ▶	20.00	Range : ISCL to 20.00mA / 56mV / 10.00V (default value changes as per analog input selected)
		to change value
Press ◀ key to select Reverse scaling		Default setting : 00
	Display RSCL for 1 sec.	Reverse scaling *
Press ▶	00	The display scaling point settings can be reversed by selecting Reverse scaling as 4E5
		to change value

KEY PRESS	DISPLAY	DESCRIPTION
Press ◀ key to select Set point high limit		Default value : 750°C
	Display SPHL for 1 sec.	Set point high limit (SPHL)
Press ▶	750	Range : SPLL to max. range of sensor (for TC/RTD) SPLL to DSPH (for AIN) for AIN display as per decimal point selected.
		to change value

KEY PRESS	DISPLAY	DESCRIPTION
Press ◀ key to select Set point low limit		Default value : -200°C
	Display SPLL for 1 sec.	Set point low limit (SPLL)
Press ▶	-200	Range : min. range of sensor to SPHL (for TC/RTD) DSCL to SPHL (for AIN) for AIN display as per decimal point selected.
		to change value
Press ◀ key to select Lock code		Default setting : 0
	Display LOCK for 1 sec.	Lock code
Press ▶	0	Range : 0 to 9999 Note: This code is need in Level 5
		to change value
Press ◀ key to select Reset		Default setting : 00
	Display RES for 1 sec.	Reset
Press ▶	00	All parameters set to factory setting
		to change value
		NOTE : After altering the value of the input parameters press ◀ for change to actually take effect.
		NOTE : Programming steps for Level1 (Alarm1 module) & Level2 (Alarm2 module) is same. Programming of level1 is shown.
PROGRAMMING OF LEVEL 1		
Press ▶ till Level 1 is displayed		
KEY PRESS	DISPLAY	DESCRIPTION
	LUL1	Parameters in this level can be set.
Press ◀ key to select Alarm high limit		Default value : 750°C NOTE : This parameter is not prompted if alarm mode is
	Display HA for 1 sec.	Alarm high limit
Press ▶	750	Range : LA to SPHL (BAND mode) SPLL to SPHL (HA mode) for AIN display as per decimal point selected.
		to change value
Press ◀ key to select Alarm low limit		Default value : -200°C NOTE : This parameter is not prompted if alarm mode is
	Display LA for 1 sec.	Alarm low limit
Press ▶	-200	Range : SPLL to HA (BAND mode) SPLL to SPHL (LA mode) for AIN display as per decimal point selected.
		to change value

Press key to select Alarm hysteresis.
 Default value: 1.0
 NOTE : This parameter is not prompted if alarm mode is OFF / FdR / FdR

Display for 1sec
 Press to change value Range: 0.1 to 99.9 °C (for TC/RTD) 1 to 999 (for analog input) for AIN display as per decimal point selected.

Press key to select Delay.
 Default setting :

Display for 1sec
 Press to change value Range :0.0 to 99.59 min:sec

KEY PRESS	DISPLAY	DESCRIPTION
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Press key to select Alarm mode.
 Default setting : HA
 In level 2 default setting is LA

Alarm mode *
 Display for 1sec
 OFF Alarm off
 Press High Alarm
 Press Low Alarm
 Press Band Alarm
 Press Fail Output Alarm

Press key to select Alarm latch status.
 Default setting : OFF
 NOTE : This parameter is not prompted when alarm mode is OFF

Latch alarm*
 Display for 1 sec.
 Press OFF When latch is ON Alarm status will be preserved at any process condition.
 ON

Press key to select Alarm hold status.
 Default setting : OFF
 NOTE : This parameter is not prompted if alarm mode is OFF

Hold Alarm*
 Display for 1 sec.
 Press OFF Used to avoid alarm at power ON. Alarm is enabled only after the process value has reached the set point.
 ON

Press key to select Relay status for alarm1.
 Default setting : EN
 NOTE : This parameter is not prompted when alarm mode is OFF

Relay status for Alarm1
 Display for 1 sec.
 Press EN Relay Energized.
 dEN Relay De - energized

Press key to select Alarm annunciator.
 Default setting : OFF
 NOTE : This parameter is not prompted if alarm mode is OFF

Alarm annunciator*
 Display for 1 sec.
 OFF OFF No annunciator
 Press LED LED LED of alarm1 blinks at the rate of 0,2sec
 Press dSP dSP LED blinking ; display flashing b/w PV and message (ALRM) at 1 sec.

NOTE : Applicable only if Analog output is available.

PROGRAMMING OF LEVEL 3
 Press till Level 3 is displayed

KEY PRESS	DISPLAY	DESCRIPTION
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<input type="checkbox"/> LUL3	Parameters in this level can be set.
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Press key to select Analog output type.
 Default setting : 10V

Type
 Display for 1sec Used to set analog o/p type
 10V V Output:- 0 to 10V
 Press 5V V Output:- 0 to 5V
 Press 0mA I Output:- 0 to 20mA
 Press 4mA I Output:- 4 to 20mA

Press key to select Manual.
 Default setting : OFF

Manual
 Display for 1sec
 OFF Used to set manual output On / Off.
 Press ON

Press key to select Analog low scaling point
 Default value : -9999
 NOTE : This parameter is prompted only if manual is OFF

Low scaling point
 Display for 1sec
 Press to change value Programmable from -1999 to 9999. Fixed 1°C resolution for TC / RTD. For AIN display as per decimal point selected.

Press key to select Analog high scaling point
 Default value : 9999
 NOTE : This parameter is prompted only if manual is OFF

High scaling point
 Display for 1 sec.
 Press to change value Programmable from -1999 to 9999 Fixed 1°C resolution for TC / RTD. For AIN display as per decimal point selected.

Press key to select Sensor error level
 Default setting : HIGH

Sensor error level
 Display for 1 sec.
 HIGH Incase of sensor failure the output can be set to high or low value of range.
 Press LOW

Press key to select Analog output %.
 Default setting : 0.0
 NOTE : This parameter is prompted only if manual is ON

Analog output %
 Display for 1 sec.
 Press to change value Programmable from 0.0 to 100.0

PROGRAMMING OF LEVEL 4
 Press till Level 4 is displayed

KEY PRESS	DISPLAY	DESCRIPTION
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<input type="checkbox"/> LUL4	Parameters in this level can be set.
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Press key to select Address
 Default Value :

Address
 Display for 1sec
 Press to change value Programmable from 0 to 247.

Press key to select Baud rate
 Default Value :

Baud rate
 Display for 1sec
 Press to change value Programmable from 2400 to 115k

Press key to select Parity.
 Default setting : None

Parity
 Display for 1sec
 Press Odd for odd parity
 Press EVEN for even parity

PROGRAMMING OF LEVEL 5
 Press till Level 5 is displayed

KEY PRESS	DISPLAY	DESCRIPTION
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Press key to select Address
 Default Value :

ID
 Display for 1sec
 Press key to change value Programmable from 0000 to 9999
 Note: This ID should match with the lock code set in Level 0.

Press key to select Level lock
 Default Value : Full

Display for 1sec
 Press key FULL for select full mode
 Press key READ To select Read only mode
 Press key LOCK To lock the level.
 Display for 1sec
 Press key FULL for select full mode
 Press key READ To select Read only mode
 Press key LOCK To lock the level.

Note: Programming steps are same for LK-2, LK-3 and LK-4.

USER GUIDE

ALARM MODES

High Alarm:

The alarm is turned ON when PV rises above a preset value.

Low Alarm:

The alarm is turned ON when PV falls below a preset value.

Band Alarm:

The alarm is turned ON when PV rises above or falls below a preset value.

Fail Output Alarm:

The alarm is turned ON in case of :

- measurement value exceeds range
- Sensor reverse condition (applicable for TC/RTD).

Latch Alarm:

This function is used to latch the alarm. When activated, the alarm is latched until it is acknowledged manually, even though the alarm condition may have disappeared.

Hold Alarm:

When hold is selected, in any alarm mode, it prevents an alarm signal on power-up. The alarm is enabled only if the process temperature is within alarm range.

Alarm display options :

- Press the **▶** key to view the status of alarm1
- Press the **▲** key to view the status of alarm2

Only the alarms that are active can be viewed.

Alarm status (e.g : of alarm 1) will be displayed as follows:

- LA-1 for low alarm, HA-1 for high alarm,
- FO-1 for Fail output alarm.

- Press **■** to acknowledge the particular alarm (Alarm will be acknowledged only if latch ON).

FILTER TIME CONSTANT :

The filter is an adaptive digital filter that discriminates between measurement noise and actual process changes. If the signal is varying too greatly due to measurement noise, increase the filter value. If the fastest controller response is needed, decrease the filter value.

BIAS :

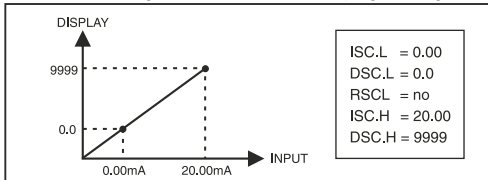
This value offsets the indicator's PV display value by the entered amount. This is useful in applications in which the sensor cannot provide the actual temperature signal due to mounting constraints, inaccuracy etc.

SCALING FOR ANALOG INPUT :

To scale the controller, two scaling points are necessary. Each scaling point has a coordinate pair of Display Values and Input Values. It is recommended that the two scaling points be at the low and high ends of the input signal being measured. Process value scaling will be linear between and continue past the entered points to the limits of the input range.

(Factory settings example will display 0.0 at 0mA input and display 9999 at 20.00mA input.) Reverse acting indication can be accomplished by setting reverse scaling parameter as YES. In this case referring the above eg. For 0.00mA input the display will show 9999 and 20.00mA input the display will show 0.0.

NOTE : This change will not be visible in the programming menu.



SETTING FOR MANUAL OUTPUT MODE :

KEY PRESS	DISPLAY	DESCRIPTION
Eg. For 0-10V if constant 5V output Voltage is desired then setting for manual output :		
Press ▶ key to enter into mode.		
Press ▲ key till	LUL3	
Press ■	TYPE	display
Press ▲	10V	(for Selection of voltage Current)
Press ■	MANL	display
Press ▲	00	(Selection for manual output mode)
Press ■	PRLO	
Press ▲	50.0	Adjust the display to 50.0 to get 5V at output

SETTING FOR RETRANSMISSION MODE

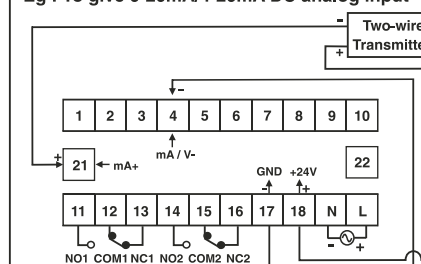
Eg. : 1) For Temperature Input :		
Input : RTD Input		
Retransmission output : 0 - 20 mA		
Desired output : 0mA at 0°C, 20mA at 400°C		
Settings :		
Press ▶	LULO	
Press ■	INP	
Using ▲	P100	Select the Input type as RTD
Press ■ till	LULO	is displayed
Press ▲ till	LUL3	is displayed
Press ■	TYPE	display momentarily
Press ▲	00A	Select Analog output type
Press ■	MANL	display momentarily
and then display	OFF	(Selection for retransmission mode)
Press ■	A-LO	
Press ▲	0	Adjust the display to 0
Press ■	A-HI	

KEY PRESS	DISPLAY	DESCRIPTION
Press ▲	400	Adjust the display to 400
Press ■		
Eg. : 2) For analog Input (0-10V):		
Retransmission output : 4 - 20 mA		
Desired output : 4mA at 0V ; 20mA at 10V		
Input Scaling : 0V - 0 ; 10V - 400		
Settings :		
Press ▶	LULO	
Press ■	INP	
Using ▲	UOLT	Select the Input type as voltage
Press ■ until	dSCL	is displayed
Using ▲	0	Adjust the display to 0
Press ■	ISCL	
Press ▲	0.00	Adjust the display to 0
Press ■	dSCH	
Press ▲	400	Adjust the display to 400
Press ■	ISCH	
Press ▲	10.0	Adjust the display to 10
Note : By default the display will be 10.00 for 0-10V Input		
Setting for Retransmission :		
Press ▲ till	LUL3	
Press ■	TYPE	display momentarily
Press ▲	40A	Select Analog output type
Press ■	MANL	displays momentarily
and then display	OFF	
Press ■	A-LO	
Press ▶	0	Adjust the display to 0
Press ■	A-HI	
Press ▶	400	Adjust the display to 400
Press ■		

CONNECTION WITH 2-WIRE TRANSMITTER

Connection with Internal 24V DC supply :

Eg : To give 0-20mA/4-20mA DC analog input



CALIBRATION CERTIFICATE

Date: _____

Model No: _____

Sr. No.: _____

Claimed Accuracy : ± 0.25 % of full scale ± 1 digit
(After 20min warmup time)

The calibration of this unit has been verified at the following values :

SENSOR	CALIBRATION TEMP. (°C) (0.1Resolution)	DISPLAY VALUE (°C)
K	35.0	35.0
	700.0	700.0
	1350	1350
PT100	0.0	0.0
	500.0	500.0
	800.0	800.0

SENSOR	CALIBRATION VALUE (0.1Resolution)	DISPLAY VALUE
Voltage (VDC)	0.0	0.0
	10.0	10.0
Current (mA)	0.0	0.0
	20.0	20.0

The thermocouple / RTD curves are linearised in this microprocessor based product; and hence the values interpolated between the readings shown above are also equally accurate; at every point in the curve.

Unit is accepted as accuracy is within the specified limit of claimed accuracy and certificate is valid up to one year from the date of issue

CHECKED BY : _____

(Specifications subject to change as development is a continuous process.)

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