

LF-10\20

ON-OFF PROCESS CONTROLLERS

**LFIA**  
Level & Flow Industrial Automation



96 x 96 LF-10



96 x 96 LF-20



96 x 48



48 x 96

● Available size : 96x96, 96x48(H), 48x96(V)

● External Box : Ex. Flameproof / M S or S S Box

### FEATURE

- ✦ Microprocessor based powerful & highly reliable controller.
- ✦ Universal Input T/C, RTD, linear input selection.
- ✦ Potential Free Relay contact output up to 1 / 2 / 3 / 4 Nos.
- ✦ 0.1% Accuracy of FSD.
- ✦ Isolated 0/4-20mA process value retransmission output.
- ✦ All Configurations and calibration from front panel keypad.
- ✦ Highly communicative serial interface facility (RS 232/485).
- ✦ Transmitter loop power supply with current limit as standard.
- ✦ Power supply :230V/110V AC. Or 24V/12V DC
- ✦ Optional GSM mobile connectivity.
- ✦ Fully Password Protected Operation.
- ✦ User friendly menu for device configurations & calibration.
- ✦ Field Configurable
- ✦ All different input in single controller



Weather Proof Housing-IP65

### APPLICATION

- ✦ All On/Off control Application.
- ✦ Tank level controller.
- ✦ Plastic moulding machines.
- ✦ Laboratory and scientific instrument.
- ✦ Oven, boilers and furnace control applications.
- ✦ Packaging machinery.



**TECHNICAL SPECIFICATION :**

<b>INPUT</b>	<b>Input Type</b>	T/C	K, J, R, S, E, N, T
		RTD	Pt-100, Cu53 ( 2wire & 3 wire)
		Current	0 ~ 20mA DC, 4~20mA DC
		Voltage	0-5V/1-5V, 0.5 -2.5V/0- 10 V DC
		Special on demand :	0-75/200 mV & 0-1/10V/100/300 V AC/DC
		0-75/200 mV 0-100/300V DC	Resistance :- 0-500 R , 0-1/5/10 K, 1M
		Transmitter power supply	24 V DC @ 30 mA max, isolated from I/P & O/P
		Cold junction comp. & Sensor break ind.	Software base Automatic
		Range limits	As per input range Table
		Accuracy	+/- 0.1 % of span for linear & RTD, +/-0.25 % for T/C
	Input impedance	>330 K for Voltage ,mV, and T/C, 100 R for current	
<b>INDICATION</b>	<b>Indication</b>	PV & SV for UT102 & PV for UT101- LED 4 digit 7 segment display.	
	<b>Status indication</b>	LEDs for Relay status & Communication	
	<b>Alarm modes</b>	Very Low/Low/High/very High	
<b>CONTROL MODE</b>	<b>On Off control</b>	Relay / SSR	
	<b>Dead Band controls</b>	High and Low Set point for level application	
<b>OUTPUT</b>	<b>Relay Output</b>	NO - C - NC Contacts , 5A@240 V AC Resistive	
	<b>SSR Output</b>	1 / 2 / 3 / 4 Relays / SSR output	
	<b>Transmitter Power</b>	24VDC @ 20 mA ,12VDC @ 20 mA	
	<b>Retransmission Current &amp; Voltage outputs</b>	0~20/ 4~20 mA, 0~5V, 0~10V, 1~5V DC, fully 3 port isolated	
<b>COMMUNICATION</b>	<b>Communication Protocol &amp; method</b>	Modbus RTU RS- 485/RS- 232 Communication	
	<b>Programmable parameter &amp; Max No.</b>	Baud rate,Parity , Node address , Stop bit & 0-256 unit	
	<b>Wireless Communication</b>	GSM/GPRS base mobile(sms) Communication	
<b>PROGRAMMABLE PARAMETERS</b>	<b>Setpoint / Hysteresis / High scale / Low scale</b>	Full range as per input selection.	
	<b>Relay Logic</b>	F.S. high & low alarm, Dead band alarm	
	<b>Display resolution</b>	-1999 to 9999 fully configurable for linear input	
	<b>Programming of parameters</b>	Through 4 tactile keys	
<b>OTHER</b>	<b>Dimensions &amp; Mounting</b>	As per box selection & wall/structure 2/2 holes	
	<b>(A) Supply voltage (B) Power consumption</b>	(A) 110/230 AC/24VDC, 50/60 Hz (B) 4 watts maximum	
	<b>Operating ambient Temperature and Humidity</b>	0~50 °C , and humidity : Below 90%, non condensing	

**ORDERING INFORMATION :**

<b>UT-10</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>							
<b>DISPLAY</b>	<b>SIZE</b>	<b>INPUT</b>	<b>CNT. Output</b>	<b>Retrans. Output</b>	<b>TPS</b>	<b>Power</b>	<b>Comm.</b>								
PV	1	96 X 96	9	UNIVERSAL	U	None	N	-	None	N					
PV + SV	2	96 X 48 (H)	7	FIX	F	Relay	R	1*2 3*4	4-20mA	C	1*2	230V AC	1	None	N
		48 X 96 (V)	6	TYPE		SSR	S	1*2 3*4	0-10/5V	V	1*2	10V DC	0	24V DC	2
				Special	T	1	Special	T	1					Rs232	2
														GSM	1

Note : For Fix Input Pls Specified input type