

## FLOW RATE INDICATOR & TOTALIZER



96 X96 TOUCH LCD



96 X96 16 X 2 LINE LCD



IP-55,65 HOUSING-FIT



FLAMEPROOF HOUSING-FIT

● Com. Protocol- RS-485 / Ethernet TCP/IP / Wireless RF / GPRS-GSM

● Flow Monitoring and data Logging SCADA Available

### INTRODUCTION

Flow Indicator Totalizer UT-1201 Is Compact And Easy To Use, Designed For Monitoring The Continuous Flow Rate And Total Flow. The Flow Rate Along With Engineering Units Is Displayed On The Upper Line Of LCD/LED Display And The Totalizer Flow Is Displayed On 8/10 Digits On The Second Line. The Micro Controller Based Design Makes It More Flexible And Powerful Compared To Conventional Flow Totalizer. The Unit Is Suitable For Use With Any Flow Transmitter Giving Pulse Or Analog Current Output. The Display Has Floating Decimal Point Position, Which Is Programmable From The Front Panel. The Unit Has Inbuilt Relay Outputs For Flow Rate And Totalizer Of Alarm Or Control Application.

UNITTECH's Flow Totalizer Are Available For Liquid And Gas Duties And Are Available As Field/ Wall Mounting Or Alternatively In An Explosion Proof Housing To The Latest International Standards And Will Work With Orifice Any Type Of Flow Meter. Options Include Pulse And/ Or 4-20mA Re-Transmission Or Communication Outputs To Printer Or SCADA Control Systems.

### FEATURES

- ✦ Accepts Universal Inputs: 4 – 20 mA Or 0 – 10 V DC Or Pulse (3 & 2 Wire) Input Type.
- ✦ Non-Volatile Memory To Retain Totalizer Flow, No Need To Battery Change.
- ✦ Potential Free Relay Contact Output 2 X Flow And 2 X Totalizer.
- ✦ Linear Or Square Root Input Selections With 0.1% Accuracy.
- ✦ Isolated 0 / 4 – 20 mA DC Retransmission Output Proportional To Standard Flow Rate.
- ✦ Field Operated User Friendly Menu For Device Configurations & Calibration.
- ✦ 8/10 Digit Flow Totalizer With Password Protected Resetting.
- ✦ Fully Password Protection For Tamper Free Operation.
- ✦ Isolated Highly Communicative Serial Interface Facility (RS 232/485).
- ✦ 24 V Loop Power Supply For Flow Transmitter.
- ✦ Optional GSM Mobile Connectivity For Wireless Remote Reading Purpose (SMS).
- ✦ Flow Monitoring & Data Logging Computer Software Available.
- ✦ Available In Weather Proof Or Flame Proof Housing.

### APPLICATIONS

- ✦ Chemical Batching Plant.
- ✦ Hazardous Areas.
- ✦ Tank Farm Level Monitoring.
- ✦ Brewery Batch Controllers.
- ✦ Oil Storage Depot Deliveries.
- ✦ Effluent Discharge Metering.
- ✦ Storage Tank Steam Trace.
- ✦ Crude Oil/Water Flow Measurement.
- ✦ High Pressure Gas Transfer.
- ✦ Terminal Automation Software.
- ✦ LPG Distribution.

## FLOW RATE INDICATOR &amp; TOTALIZER

## TECHNICAL SPECIFICATION

INPUT	Input Type	Current :	0 ~ 20 mA DC , 4~20 mA DC
		Voltage:	0-5 V/1-5 V, 0.5 -2.5 V/0- 10V DC
		Pulse :	3 Wire PNP, NPN & 2 Wire NAMUR Type
		24 V DC @ 30 mA Max, Isolated From I/P & O/P	
		Linear Or Square Root	
	Range Limits	As Per Input Range Table	
	Accuracy	+/- 0.1 % Of Span For Linear & RTD, +/-0.25 % For T/C	
INDICATION	Indication	TOUCH LCD TYPE :	3.5 Inch Touch Screen 5 Digit Flow Rate & 10 Digit Totalizer.
		LCD TYPE :	5 Digit Flow Rate & 10 Digit Totaliser-16x2 Line
	Status Indication	LEDs For Relay Status & Communication	
	Alarm Modes	Very Low / Low / High / Very High	
CONTROL MODE	On Off Control	Relay / SSR	
	Dead Band Controls	High And Low Set Point for Level Application	
OUTPUT	Relay Output	NO - C - NC Contacts , 5A@240 V AC Resistive	
	SSR Output	1 / 2 Relays / SSR Output	
	Transmitter Power	24 V DC @ 20 mA , 12 V DC @ 20 mA	
	Retransmission Current & Voltage Outputs	0~20/ 4~20 mA, 0 ~ 5 V , 0 ~ 10 V , 1 ~ 5V DC, Fully 3 Port Isolated	
COMMUNICATION	Communication Protocol & Method	Modbus RTU RS- 485/RS- 232 Or Ethernet Communication	
	Programmable Parameter & Max No.	Baud Rate, Parity , Node Address , Stop Bit & 0-256 Unit	
	Wireless Communication	GSM/GPRS Base Mobile(sms) Communication	
PROGRAMMABLE PARAMETERS	Set point / Hysteresis / High Scale / Low Scale	Full Range As Per Input Selection.	
	Relay Logic	F.S. High & Low Alarm, Dead Band Alarm	
	Display Resolution	-1999 to 9999 Fully Configurable For Linear Input	
	Programming Of Parameters	Through 4 Tactile Keys	
OTHER	Dimensions & Mounting	As Per Box Selection & Wall/Structure 2/2 Holes	
	(A) Supply Voltage (B) Power Consumption	(A) 110/230 AC/24 V DC, 50/60 Hz (B) 4 Watts Maximum	
	Operating Ambient Temperature And Humidity	0~50 °C , and humidity : Below 90%, non condensing	

## ORDERING INFORMATION :

UT-1201																	1	2	3	4	5	6	7	8
Ex. Housing		Size		Input		Relay-Flow			Relay-TOT			Output		Power		Comm.								
Panel Mounting	P	96 X 96-LCD		9	4-20mA	c	None	N	—	None	N	—	None	N	230V AC	1	None	N						
Field Mount. (Wall)	W	96 X 46-LCD		4	0-10/5/1V	v	Relay	R	1•2	Relay	R	1•2	4-20mA	C	110V AC	2	RS485	4						
FLP Housing	F	96 X 96- Touch		6	Pulse	P							0-10/5V	V	24V DC	4	Ethernet	2						
					Special	S							Special	T			GSM	1						