



### INTRODUCTION:

Flow Indicator Totaliser, Series 191 accepts a 4-20 mA signal proportional to Rate of Flow from a flow sensor or rise of head in an open channel flowmeter. Any of the following Instruments can be used for obtaining rate of flow.

1. Rate of Flow Indicator-Transmitter, 104 ROF
  2. Ultrasonic Level Transmitter, ULTRAMATE 136 ULT.
- The Rate of Flow and Cumulative Flow are displayed simultaneously.

### SPECIFICATIONS:

- Input: 4 - 20 mA DC
- Optional Relay Output: 1 No. Potential free relay  
On flow contact max upto 2 rated 5 A
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On Totaliser Flow contact max upto 2 rated 5 A
- Optional Current Output: 4 - 20 mA @ 600 E
- Optional MODBUS RTU, RS 232 / RS 485 output.
- Display: 16 X 2 Character LCD Backlit
- Range : Std. - 0 - 100 %  
Optional- To be specified by Customer  
(-1999 to 9999)
- Accuracy: +/- 0.1 % of span, +/- 1 digit
- Power Supply: 110 VAC, +/- 10 %, 50 Hz OR  
230 VAC, +/- 10 %, 50 Hz
- Ambient Temperature: 0 to 50° C
- Transmitter Supply: 24 VDC, +/- 0.1 V @ 30 mA
- Dimensions:  
Front Facia (mm) : 96 X 96  
Cut out (mm) : 92 X 92  
Depth (mm) : 110

### APPLICATIONS:






Remote indication of flow, totaliser flow, etc proportional to the signal transmitted by SBEM transmitters mounted in the field such as (a) Rate of Flow Indicator Transmitter - 104 ROF (Refer LF 104 0802 R02) or  
(B) Ultrasonic Level Transmitter - ULTRAMATE 136 ULT (Refer LF 136 0801 R02)



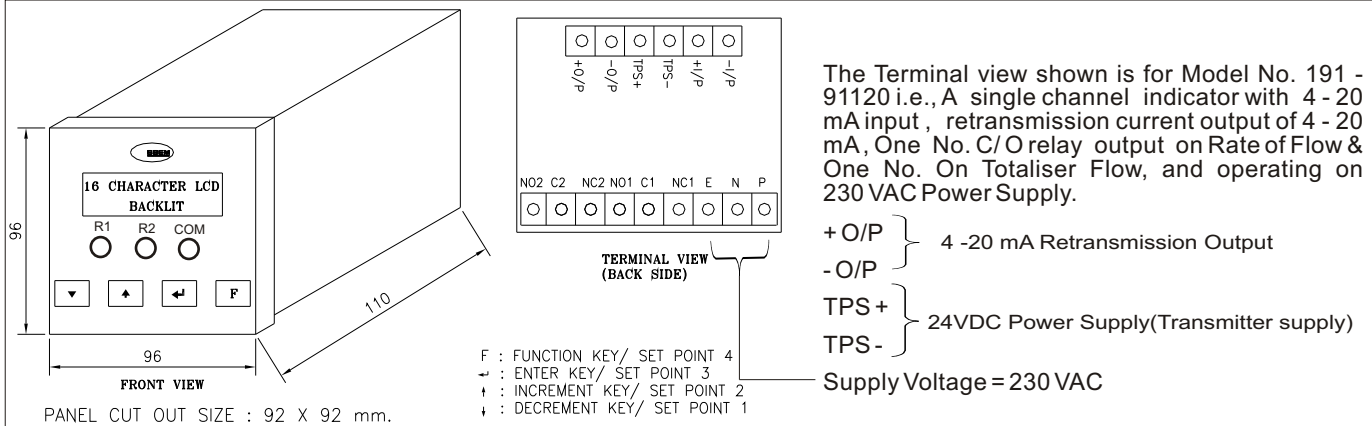
### FEATURES:

- Microprocessor based
- Proven trouble-free field performance.
- Highly compact
- Highly accurate
- Dust proof enclosure with epoxy powder coating
- LCD display gives better readability at long range
- Fast Response time.
- Designed for 4 - 20 mA input
- User friendly programming
- Wide supply variation
- RS 232 / RS 485 MODBUS RTU protocol - optional
- Immune to mechanical vibrations
- Panel mounted in Safe Area

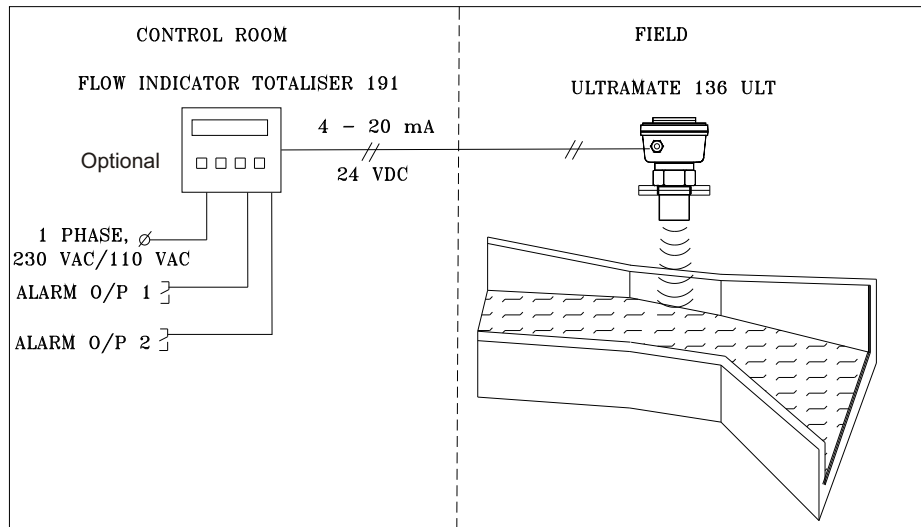
## ORDER CODE:

191 - 				
<b>Type:</b>	<b>Output:</b>	<b>RELAY OUTPUTS</b>	<b>Power Supply:</b>	<b>Output Type:</b>
9 - Single channel Indicator with 4 - 20 mA input	0 - Not applicable 1 - 4 - 20 mA current O/P 2 - MODBUS RTU 232 3 - MODBUS RTU 485	0 - Zero 1 - One No. On Rate of Flow & One No. On Totaliser Flow	1 - 110 VAC, 50 Hz 2 - 230 VAC, 50 Hz	0 - Without Lineariser

## MECHANICAL DIMENSION:



## APPLICATION DRAWING (AN EXAMPLE):



The instrument shown in the field is SBEM's Ultrasonic Level Transmitter 136 ULT. 191 Flow Indicator Totaliser is mounted in the control room which is indicating flow and totaliser flow proportional to 4-20 mA signal proportional to flow coming from ULTRAMATE136 ULT

Continuous changes may necessitate changes without notice

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