

FLOW INDICATOR & TOTALIZER WITH MODBUS

MULTISPAN

MFC-3016D

Johannesburg Branch
MIMIC COMPONENTS
 Cape Town Branch
 Mimic Cape



ENVIRONMENT CONDITION:

| | |
|-----------------------------------|---|
| Operating Temp. | 0 °C to 55 °C |
| Relative Humidity | UP to 95% RH (non-condensing) |
| Protection Level (As per request) | IP-65 (Front side) As per IS/IEC 60529 : 2001 |

MECHANICAL INSTALLATION

| Outline Dimension (mm) | Panel Cutout Dimension (mm) |
|------------------------|-----------------------------|
| | |

TECHNICAL SPECIFICATION

INPUT SPECIFICATION:

| | |
|--------------|--|
| Input | 4 to 20mA DC |
| Range limits | 0 to 9999 programable with decimal point selection |
| Resolution | Decimal Point selectable : 9.999, 99.99, 999.9, 9999 |

DISPLAY AND KEYS:

| | |
|---------|--------------------------|
| Display | 16X2 LCD Display |
| Keys | SET, SHIFT, INC, ENT/RST |

DIMENSION:

| | |
|--------------|-----------------------------|
| Size (mm) | 48 (H) x 96 (W) x 67 (D) mm |
| Panel Cutout | 45 (H) x 92 (W) mm |

INDICATION :

LCD Type, 4 digit Flow rate & 8 digit Totaliser - 16X2 line with back light

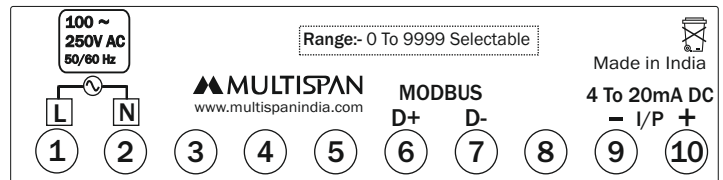
COMMUNICATION SPECIFICATION :

| | |
|----------------------|------------------------------------|
| Protocol | Modbus RTU Serial |
| Standard | RS - 485 |
| Communication method | 2 wire half duplex |
| Data frame | N-8-1, E-8-1, O-8-1 |
| Communication rate | 2400, 4800, 9600, 19200, 38400 bps |
| Address range | 1 to 127 |
| Data type | long integer, float |

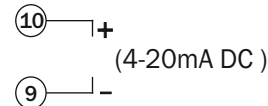
POWER SUPPLY:

| | |
|----------------|-------------------------|
| Supply Voltage | 100 to 250V AC, 50-60Hz |
|----------------|-------------------------|

TERMINAL CONNECTION



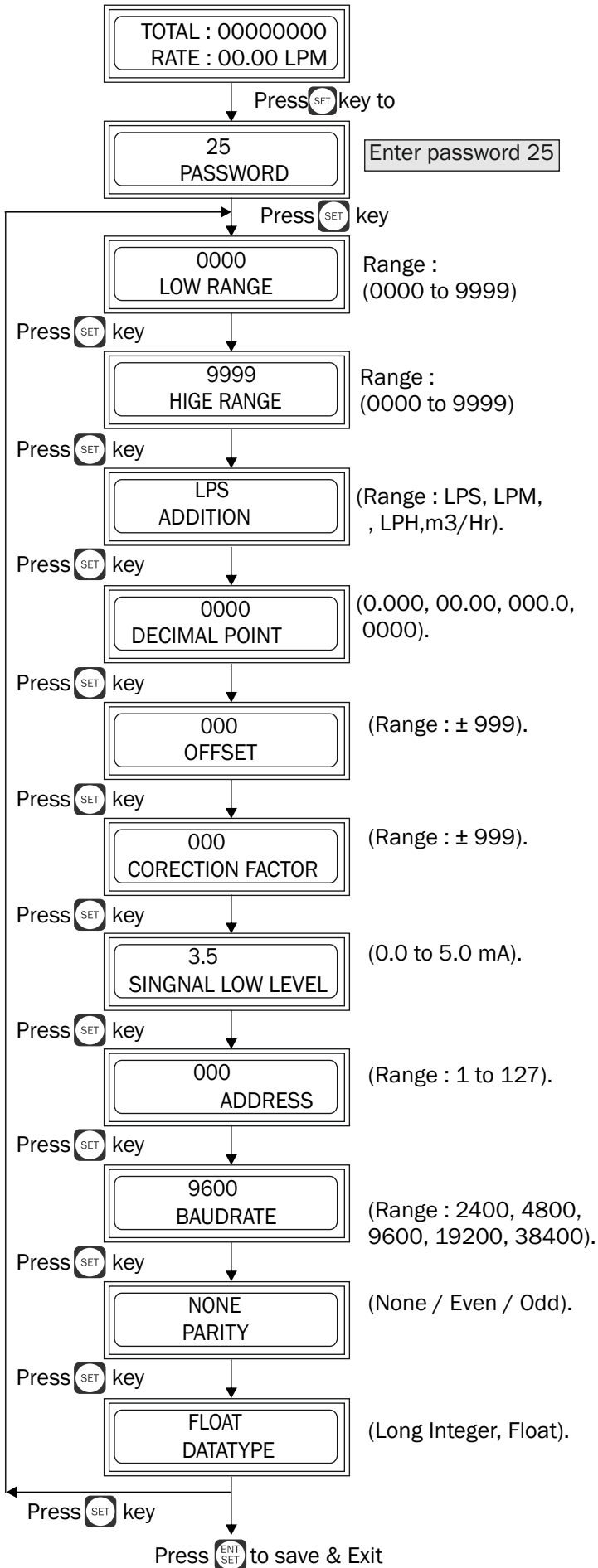
CONNECTION FOR CURRENT I/P



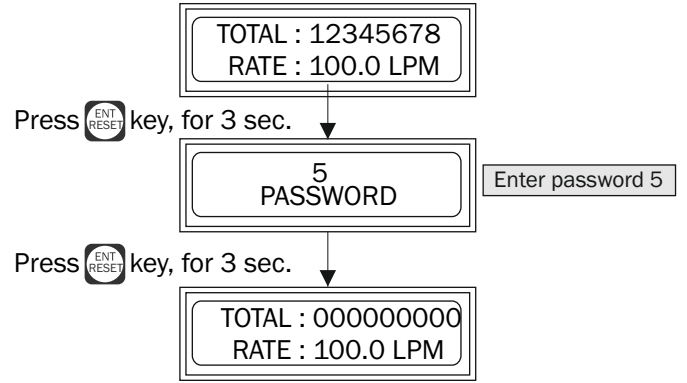
KEY OPERATION

| FUNCTION | PRESS KEY |
|--|-----------------------|
| OPERATOR MODE | |
| To enter in parameter setting | SET |
| To reset total flow (password portect) | ENT/RESET Press 3 sec |
| To view grand total flow | ← Press 3 sec |
| To reset grand total flow | ← + ENT/RESET |
| PARAMETER SETTING MODE | |
| To set parameter value and move to next step | SET |
| It will select the digit to modify, when value is edited | ← |
| To change parameter value | ↑ |
| Set parameter to be save & exit | ENT/RESET |

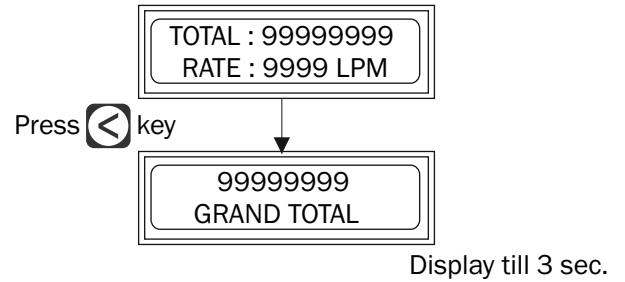
PARAMETER SETTING



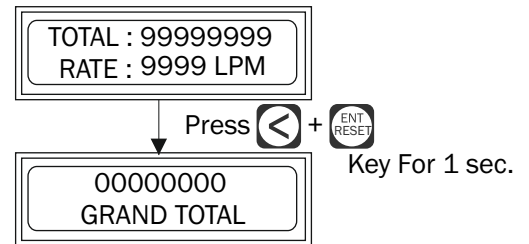
TOTAL FLOW REST FUNCTION



TO VIEW GRAND TOTAL



TO RESET GRAND TOTAL FLOW



MODBUS PARAMETER

| Sr No. | Access Type | Parameter | Register |
|--------|-------------|---------------------|----------------------|
| | | | Datatype |
| | | | Long Integer & Float |
| 1 | R | Total Flow | 0 |
| 2 | R | Total Flow DP | 2 |
| 3 | R | Flow Rate | 4 |
| 4 | R | Grand Total Flow | 6 |
| 5 | R | Grand Total Flow DP | 8 |
| 6 | R/W | Low Range | 10 |
| 7 | R/W | High Range | 12 |
| 8 | R/W | Addition | 14 |
| | | Selection | Value |
| | | LPS | 0 |
| | | LPM | 1 |
| | | LPH | 2 |
| | | M3/Hr | 3 |
| 9 | R/W | Decimal Point | 16 |
| | | Selection | Value |
| | | 0000 | 0 |
| | | 000.0 | 1 |
| | | 00.00 | 2 |
| | | 0.000 | 3 |
| 10 | R/W | Offset | 18 |
| 11 | R/W | CF | 20 |
| 12 | R/W | Signal Low Limit | 22 |
| 13 | R/W | Address | 24 |
| 14 | R/W | Buadrate | 26 |
| | | Selection | Value |
| | | 2400 | 0 |
| | | 4800 | 1 |
| | | 9600 | 2 |
| | | 19200 | 3 |
| | | 38400 | 4 |
| 15 | R/W | Parity | 28 |
| | | Selection | Value |
| | | None | 0 |
| | | Even | 1 |
| | | Odd | 2 |
| 16 | R/W | Datatype | 30 |
| | | Selection | Value |
| | | Long integer | 0 |
| | | Float | 1 |

| | Actual Value | DP Selection |
|-----|--|--------------|
| SLL | Value/10(If data type long integer selected) | Fix |