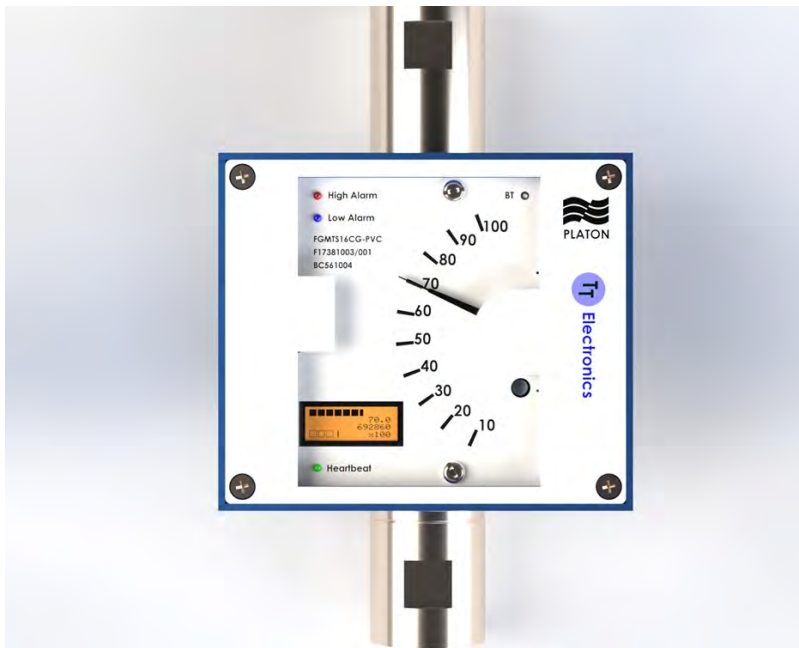


GMTE (HW rev 6.1, SW rev 2.5)



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View and Description

3

Front Panel- User Functions

4-6

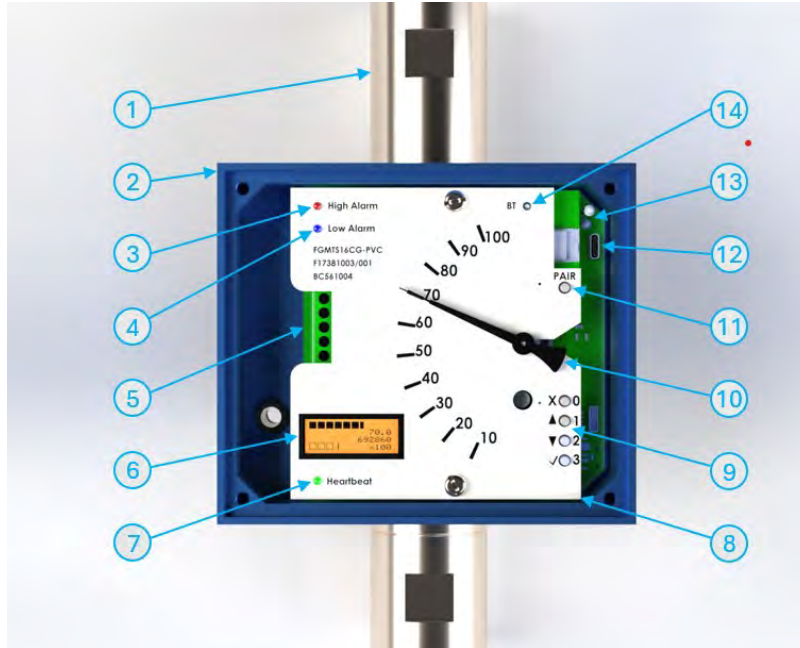


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VIEW AND DESCRIPTION



- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Flow tube 2. Housing 3. High Alarm indicator 4. Low Alarm indicator 5. Screw terminal 6. Display 7. Heartbeat indicator | <ol style="list-style-type: none"> 8. Scale plate 9. Front panel buttons 10. Pointer 11. Bluetooth Pair button (optional) 12. USB-C communication port 13. Communication port indicators 14. Bluetooth indicator (optional) |
|--|--|

The GMTE is a combination of the mechanical flow meter and an electronic transmitter that allows remote monitoring of flow rate, and high and low alarm status.

It operates on the principle of magnetic coupling between a float located in the flow tube (1) and a rotating magnet connected directly to the pointer (10) placed in the meter housing (2). The float, depending on the flow magnitude, changes its vertical position. The change in the float position translates into a change in the angle of the magnet in the meter and thus the pointer on the scale plate (8).

Without power, the flow meter is limited to measuring the flow rate.

After powering on, the Heartbeat indicator (7) blinks every second. This reflects the Totaliser sampling rate, even when the Totaliser is switched off. This LED does not blink in Compensation and Calibration modes.

Both High Alarm (3) and Low Alarm (4) indicators reflect state of the open drain outputs and go off when alarm levels are met. When the meter is uncalibrated, they are always inactive.

The display (6) is in the default mode and shows:

- Bar graph that reflects percentage of the pointer deflection,
- Actual flow rate that reflects value shown by the pointer,
- Total flow,
- Total flow multiplier (optional).



Note: When the GMTE is powered up or the Averaging Window is changed, an asterisk '*' is shown to indicate that the averaging buffer is not yet settled. It will disappear once the buffer is fully updated with new data.

X 0 0

▲ 0 1

▼ 0 2

✓ 0 3

With four buttons located under the front cover, a few functions can be accessed. To access one, enter a 4-digit code while the screen is in reading mode (default). The entered code will appear in the lower right corner of the LCD. All four digits must be entered, even if the code is '0001' – you must press '0' three times before '1'.



Failure to do so will result in the code being ignored. If the code is correct, a new screen will appear after one second. Refer to the table below for details on the codes.

FUNCTION	CODE	X	▲	▼	✓
Reading (default)	0000	-	-	-	-
Set High Alarm	0001	Cancel	Increment	Decrement	Confirm
Set Low Alarm	0002	Cancel	Increment	Decrement	Confirm
Set Alarm Hysteresis	0003	Cancel	Increment	Decrement	Confirm
Set Flow Rate Interval	0010	Cancel	Increment	Decrement	Confirm
Set Averaging Window	0011	Cancel	Increment	Decr. / Off	Confirm
Switch Backlight	0012	Cancel	On	Off	Confirm
Reset Totaliser	0013	Cancel	-	-	Reset
View Flow Rate Unit	1000	Leave	-	-	Leave
View Software Revision	1001	Leave	-	-	Leave
View Serial Number	1002	Leave	-	-	Leave

The ✓ and X buttons must be pressed and held for one second to activate.

Note: If a setting is adjusted but not confirmed with the ✓ button, the screen will return to the default mode after one minute, and any changes will be discarded.



Code: 0000

Flow Rate and Totaliser reading (default):

- Flow rate bar graph – percentage of full scale,
- Flow rate – actual value,
- Totalised flow,
- Totalised flow multiplier (not always used).



Code: 0001

High Alarm: the value at which the alarm is triggered.

- Both alarm levels are displayed, but only '►H' high alarm can be adjusted here.
- Bar graphs indicate the active ranges for these alarms.
- There are 100 steps between the minimum and full-scale value.
- When the High Alarm setting reaches the full-scale value, the alarm is deactivated.



Code: 0002

Low Alarm: the value at which the alarm is triggered.

- Both alarm levels are displayed, but only '►L' low alarm can be adjusted here.
- Bar graphs indicate the active ranges for these alarms.
- There are 100 steps between the minimum and full-scale value.
- When the Low Alarm setting reaches its minimum, the alarm is deactivated.



Code: 0003

Alarm Hysteresis: the difference between the point where the alarm triggers and where it clears.

- Range: 0 to 10% of Full Scale.
- The number on the right represents the actual (flow rate) value of the hysteresis.



Code: 0010

Flow Rate Interval: the period after which the Flow Rate is refreshed. It can be set within the range of 0.1 to 6.0 seconds.



AUG WINDOW
10 samples

Code: 0011

Averaging Window: the number of flow rate samples used to calculate the rolling average. The value can be set from 2 to 60. When set to 1, averaging is **OFF** and the raw flow rate is displayed. An asterisk '*' appears while the averaging buffer size is still adjusting. Once the buffer reaches the specified size, the asterisk disappears.

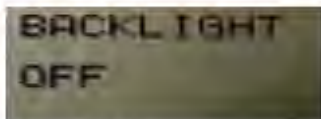


AUG WINDOW
10 samples

Backlight: ON/OFF



BACKLIGHT
ON



BACKLIGHT
OFF

Code: 0012

Totaliser Reset: clears the totalised count only. The multiplier remains unchanged.



TOTALISER
RESET?
8492
x10

Code: 0013

Flow Rate Unit (view only)



FR UNIT
L/s

Code: 1000

Software Revision (view only)



S/W REV.
2.5

Code: 1001

Serial Number (view only)



SERIAL NO.
13787-3
-1/001

Code: 1002