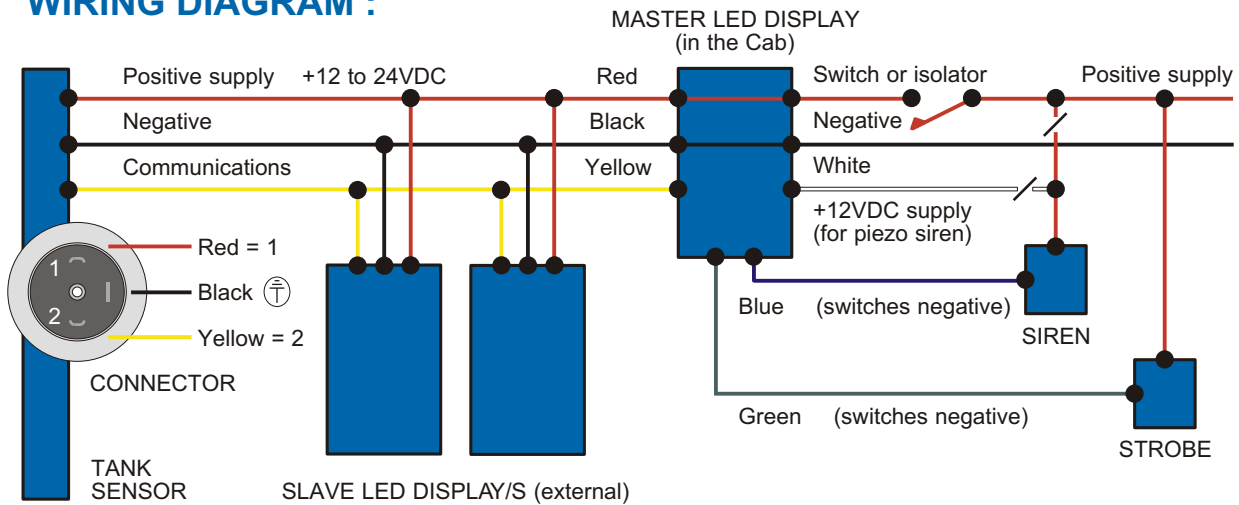


INSTALLATION Model 1684-CFS V5

SA CFS WATER TANK LEVEL INDICATING SYSTEM



WIRING DIAGRAM :



INSTALLATION NOTES :

[1684-CFS Version 5]

- 1 The Displays have internal re-settable over-current and over-voltage protection.
- 2 Connect the various units of the system as show in the wiring block diagram above.
- 3 The Strobe output flashes on and off continuously when the Low LED is flashing.
- 4 The Siren output flashes on and off when the Low LED is flashing.
- 5 Wiring to multiple LED Displays, and the Tank Sensor, is made in parallel.
- 6 Ensure a good negative connection to the vehicle body or chassis.
- 7 When first installed and powered up, the Master Display top LED will flash 10 times while it downloads the level settings from the Tank Sensor.
Do NOT interrupt the power while the Master Display reads the Tank Sensor level settings.
- 8 Within 10 seconds, when the Master LED Display indicating the current water level is lit, switch off the power to the system.
- 9 Switch on the power to the system again, and the Slave LED Display/s will then be initialised.

WIRING COLOURS :

For the wiring colours as above refer also to these labels fixed to the back of the LED display housings:

SA CFS negative ground new or retrofit
20% low 15 second audible warning
time-out system with 1684FASR
circuit, V5 firmware, July 2007

SUPPORT 1800 999 063

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MODEL
1684-CFS V5

MASTER DISPLAY

LED DISPLAY
+12 to 24VDC = Red
Supply negative = Black
Communication = Yellow
+12VDC out = White
Siren negative = Blue
Strobe negative = Green

INSTROTECH
Tel 1800 999 063

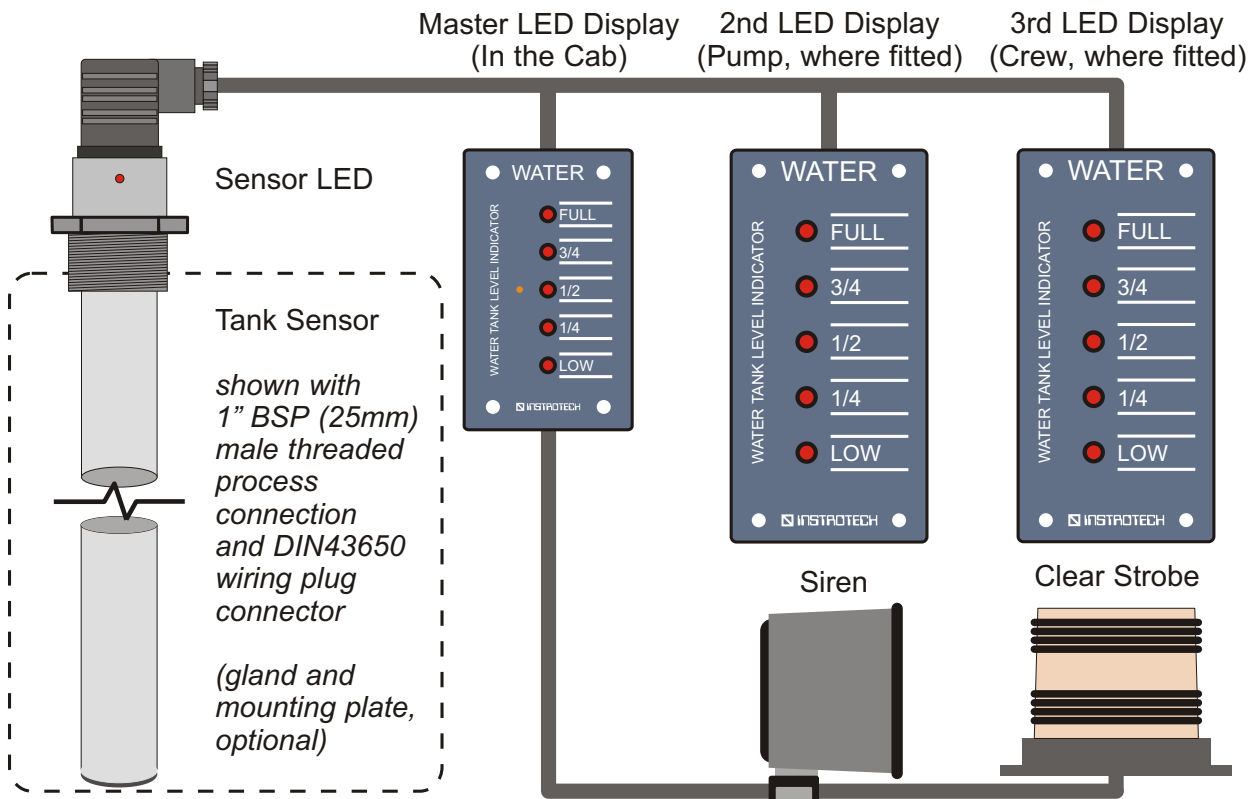
MODEL
1684-CFS V5

SLAVE DISPLAY

LED DISPLAY
+12 to 24VDC = Red
Supply negative = Black
Communication = Yellow

TANK PROBE
+12 to 24VDC = Red
Supply negative = Black
Communication = Yellow

SA CFS WATER TANK LEVEL INDICATING SYSTEM



OPERATING FUNCTIONS :

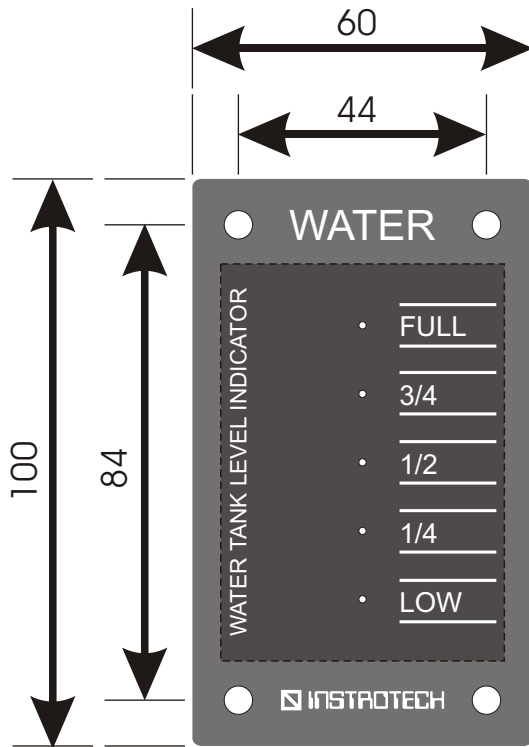
[1684-CFS Version 5]

- LED DISPLAYS** 1, 2, 3, 4 or 5 LED's are lit based on the water level in the tank.
 - * All LED's flash if there are wiring or communication faults.
 - * The top and bottom LED's flash if there is a Tank Sensor fault. (Note: The Cab LED Display dims automatically in low light.)
- TANK SENSOR** A blinking Tank Sensor LED shows normal communication with the LED Displays.
 - * A permanently lit Tank Sensor LED shows power on only without communication.
- SIREN** The Siren or Audible Alert sounds for 15 seconds when the water level drops to 20%. The Siren or Audible Alert is only reset when the tank is refilled above the 3/4 level. This prevents repeated audible warnings due to water swirling about in the tank around the Low level.
- CLEAR STROBE** The Strobe warning flashes when the water level drops to 20%. The Strobe continues flashing until the tank is refilled above the 3/4 level.
 - * The Strobe flashes if there are wiring or communication faults.
- FAILURES** Failure of the Strobe or Siren or associated wiring will not affect the operation of the Tank Sensor nor the LED Displays, since each part is protected separately.
- START-UP** On powering up, the Siren will 'beep' and the Strobe will flash to indicate that the system is working correctly, after which it will display the current water level.

*** IMPORTANT NOTICE - IF THE TOP AND BOTTOM LED's OR ALL LED's AND THE STROBE ARE FLASHING AND/OR THE SIREN SOUNDS CONTINUOUSLY, DO NOT RELY ON THE LEVEL SYSTEM FOR AN INDICATION OF THE WATER AVAILABLE SINCE THERE IS A FAULT !**

Model 1684

PANEL MOUNT LED DISPLAY AND CUT-OUT DIMENSIONS



SMALL DISPLAY:

Faceplate

60 x 100mm high

Enclosure

50 x 70 x 35mm deep

Cut-out

51 x 72mm high

Mounting holes

4 x 5mm diameter

LARGE DISPLAY:

Faceplate

72 x 144mm high

Enclosure

50 x 100 x 25mm deep

Cut-out

51 x 102mm high

Mounting holes

4 x 5mm diameter

