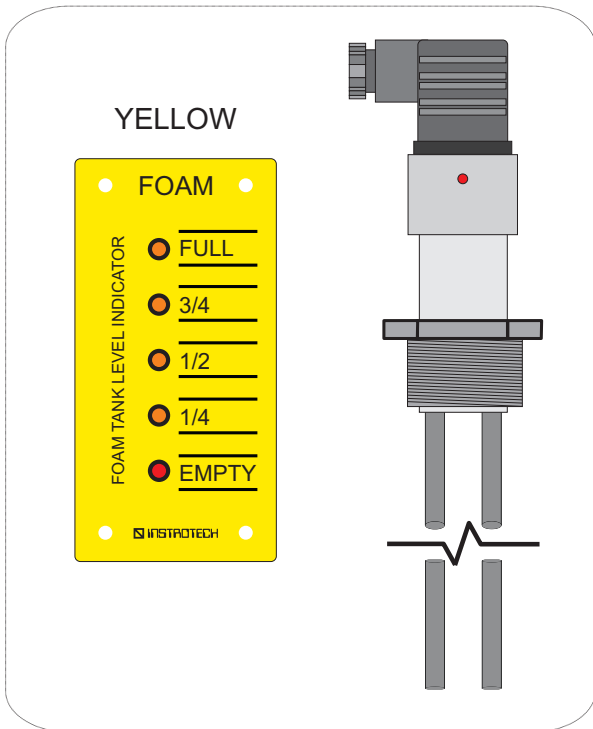
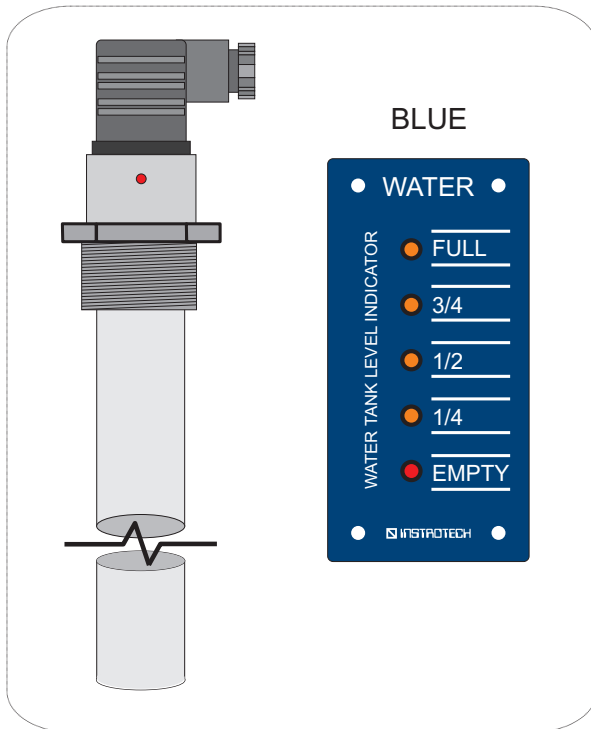


# OPERATION CFA Light Pumper

## MODEL 1684 TANK LEVEL INDICATING SYSTEMS

PART NO. 1684CAFW

PART NO. 1684CFAB



WATER tank sensor with 1" BSP process connection, LED and DIN plug connector

LED panel-mount displays having 4 amber LED's and 1 red 'Empty' LED

FOAM tank sensor with 1" BSP process connection, LED and DIN plug connector

### OPERATING FUNCTIONS:

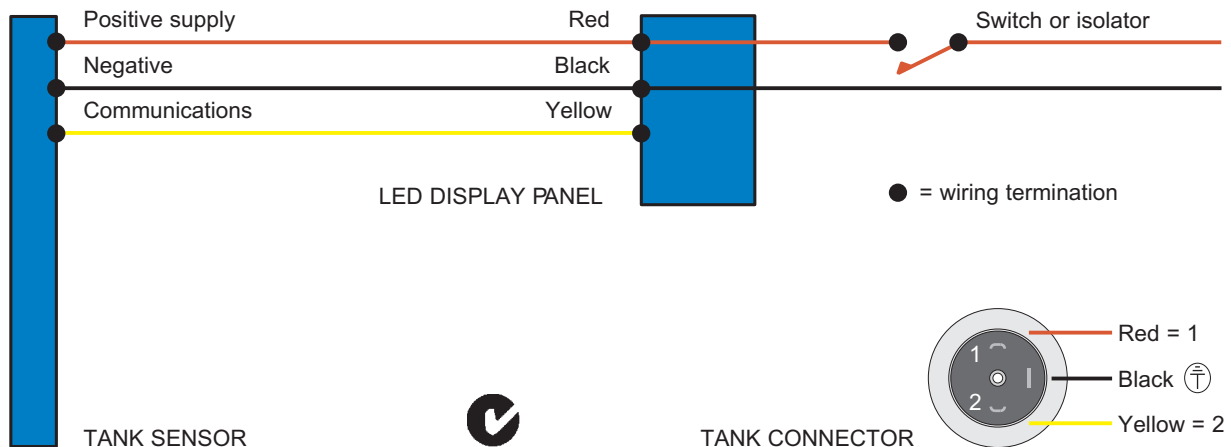
- LED DISPLAYS** 1, 2, 3, 4 or 5 LED's are lit based on the liquid level in the tank. The Empty LED flashes when the liquid tank is empty.
- \* All LED's flash if there are wiring or communication faults.
  - \* The Full and Empty LED's flash alternately if there is a Tank Sensor fault.
- TANK SENSOR** A blinking Tank Sensor LED shows normal communication with the LED Displays.
- \* A permanently lit Tank Sensor LED shows power on only without communication.

**\* IMPORTANT NOTICE - IF THE TOP AND BOTTOM LED'S OR ALL LED'S AND THE OUTPUTS ARE FLASHING, DO NOT RELY ON THE LEVEL SYSTEM FOR AN INDICATION OF THE LIQUID AVAILABLE SINCE THERE IS A FAULT!**

# INSTALLATION CFA Light Pumper

## MODEL 1684 TANK LEVEL INDICATING SYSTEMS

### WIRING DIAGRAM :



### INSTALLATION NOTES :

[1684CFAX SINGLE MASTER]

- 1 The Displays have internal re-settable overcurrent protection so external fuses are not needed.
- 2 Connect the parts of the system as show in the wiring block diagram above.
- 3 Wiring to the LED Display Panel and to the Tank Sensor is made in parallel.
- 4 Ensure a good negative connection to the vehicle body or chassis.
- 5 Ensure that all units of the system are terminated to a common positive supply point.
- 6 When *first* installed and powered up the Display Panel top LED will flash 10 times while it downloads the level settings from the Tank Sensor.

*Do NOT interrupt the power while the Display Panel reads the Tank Sensor level settings.*

- 7 Within 10 seconds the Display Panel LED's will indicate the current liquid level in the tank.

### WIRING COLOURS :

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

## SUPPORT 1800 999 063

**Instrotech Australia Pty Ltd**  
P O Box 3137  
Newton SA 5074  
email: [info@instrotech.com.au](mailto:info@instrotech.com.au)  
[www.instrotech.com.au](http://www.instrotech.com.au)  
**Tel (08) 8337 8033**  
Fax +61 8 8337 8656

**INSTROTECH**  
Tel 1800 999 063

**MODEL 1684CFAW**

**WATER**

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

**TANK SENSOR**

1 = +VE  
⊕ = -VE  
2 = Comm

**INSTROTECH**  
Tel 1800 999 063

**MODEL 1684CFAB**

**CLASS B FOAM**

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

**TANK SENSOR**

1 = +VE  
⊕ = -VE  
2 = Comm