1. Single Viu Pyrometer Sensor

1.1 Pin Description

Pin	Description	Remark	Cable color ▶ contact cable
1	Terminal 30	Battery Plus (12/24 VDC)	Red
2	Terminal 31	Battery Minus (Ground)	Black
3	Sensor ground	Ground reference for sensor signal	Blue
4	Terminal 15	Ignition	Brown
5	Sensor input	Contact for analog sensor signal	Green
6	Terminal 58	Illumination	Blue/Red
7	CAN High	Input for CAN bus SAE J1939	White
8	CAN Low	Input for CAN bus SAE J1939	Pink

Pin 1: Power Supply (Terminal 30)

U_{Bat} = +8 VDC to +32.5 VDC

The gauge is supplied with permanent power through this terminal. Current consumption is less than 200 mA in operation mode at 12 VDC and less than 3 mA quiescent current. After an over-or-under voltage event, restart will be debounced by 0.5 V.

Pin 2: Ground (Terminal 31)

Ground connection for the gauge's power supply.

Pin 3: Sensor ground

Ground reference for the analog sensor input, see pin 5.

Pin 4: Ignition (Terminal 15)

Range: 0 V to U_{Bat}. Switch on at >4 VDC, switch off at <2.5 VDC, debouncing time of 200 ms. Wake over CAN is also possible.

Pin 5: Sensor input

Sensor input depends on gauge variant with its analog input.

    A) Resistive input

        Range: 0 to 500 Ohm

    B) Voltage input

        Range: 0 to 6 V or -100 to +100 mV

    C) Frequency input

        U_{low} <0.2 V, U_{high} > = 1 V. Frequencies up to 400 kHz are possible.

The predefined > sensor curve depends on gauge variant.

Pin 6: Illumination (Terminal 58)

Range : 0 V to U$_{Bat}$. Switch on at >4 VDC, switch off at <2.5 VDC, debouncing time of 200 ms.

Pin 7: CAN High

Contact pin for CAN High according to ISO 11898 without termination resistance. *SingleViu* is capable for use with CAN bus SAE J1939.

Pin 8: CAN Low

Contact pin for CAN Low according to ISO 11898 without termination resistance. *SingleViu* is capable for use with CAN bus SAE J1939.

1.2 Pyrometer Wiring

Link Pin 1 (red, Batt+) & Pin 5 (green, Sensor input) to Probe (Yellow).

Link Pin 3 (blue, Sensor ground) to Probe (Red).

If probe or loom go Open Circuit, Pyro will go to full scale.