AUTO PUMP STATUS CENTER

VOLTAGE & PRESSURE
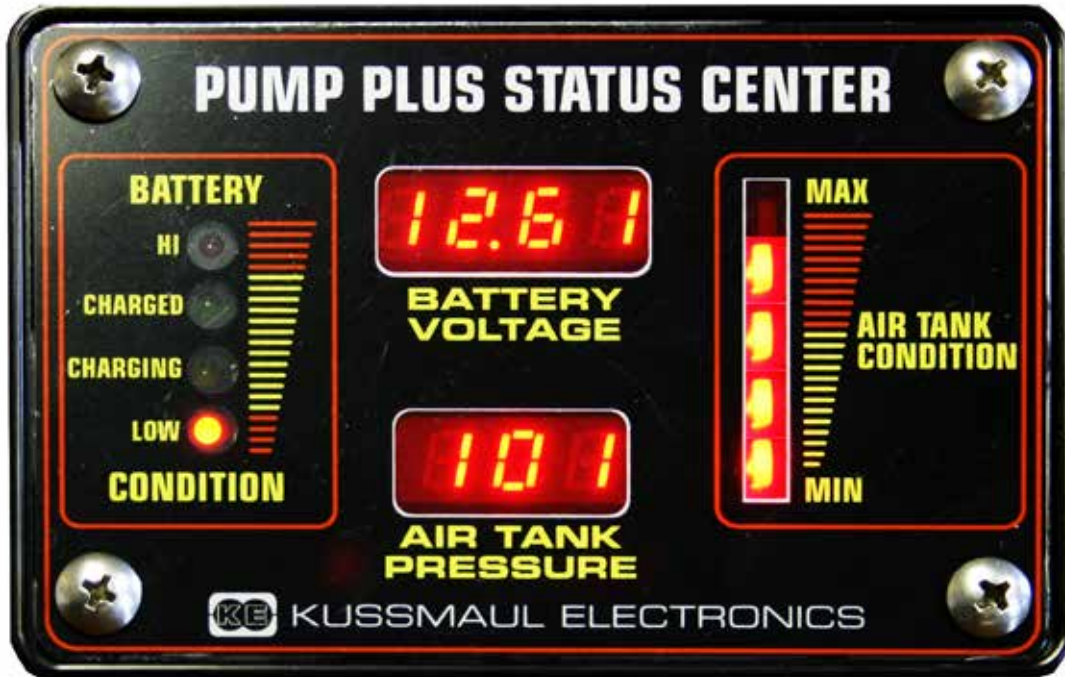
MODEL #: 091-198-12-PP

3 YEAR WARRANTY

170 Cherry Avenue
West Sayville, NY 11796
www.kussmaul.com

KE KUSSMAUL™ ELECTRONICS
ENERGIZED AND READY, WHEN SECONDS COUNT

Ph: 800-346-0857
Fax: 631-567-5826
sales@kussmaul.com

INTRODUCTION

The Auto Pump Status Center is an air pressure sensor with indicator that displays air pressure in pounds per square inch (PSI). The indicator contains a 2.5-digit numerical display and bar graph. The PSI indicator works in conjuction with an air pressure sensor. The air pressure sensor port can be connected to an air supply to measure and display PSI. Additionally, a 3.5-digit display measures and displays battery voltage.

The indicator is designed to be mounted on the exterior of a vehicle so that the battery voltage and PSI condition may be easily viewed. The indicator fits the Kussmaul standard indicator panel cut out.

FEATURES

I. PUMP PLUS STATUS CENTER
- Pressure sensor interface with 5/32 air supply input port
- 2.5-digit PSI display
- 3.5 digit VOLTAGE display
- Battery status LEDs
- 4-segment bar graph

II. AIR SUPPLY
A 5/32 air supply input port is used to connect air supply to the pressure sensor interface and a 1/8 NPT is provided for connecting to the air tank.

III. NUMERICAL DISPLAYS
A 2.5-digit display provides a PSI reading of the supplied air pressure; additionally a 3.5-digit display provides a voltage reading of the systems battery voltage.

IV. BATTERY STATUS LEDs
4 LED's provide battery condition status: Hi Voltage, Charged, Charging, and Low Voltage.

V. BAR GRAPH
The 4-segment bar graph is a graphical representation of the aire supply condition. The bottom bar will flash if the supply pressure is below 50 PSI. All bars are illuminated when the pressure reaches 150 PSI.

OPERATION

The 091-198-12-PP consists of a pressure sensor interface and indicator to measure and display PSI and battery voltage. A bar graph on the indicator provides a graphical representation of the air supply condition, while LEDs provide information on the condition of the battery.

During operation, the pressure sensor continuously monitors the air supply present at the air input port. The pressure sensor then genarates an analog signal, which is then sent to the indicator. The indicator then convertes the analog signal to the digital display. A 2-pin terminal connector is used to supply power to the pressure sensor interface. Additionally, a 4-pin terminal connector is used to interface the indicator with the pressure sensor. The 4-pin terminal provides power and pressure sensor signal to the indicator. Whenever the monitored air supply drops below 50 PSI the bottom bar graph LED will flash indicating low pressure. The 4-segment bar graph is fully illuminated when the air supply reaches 150 PSI.
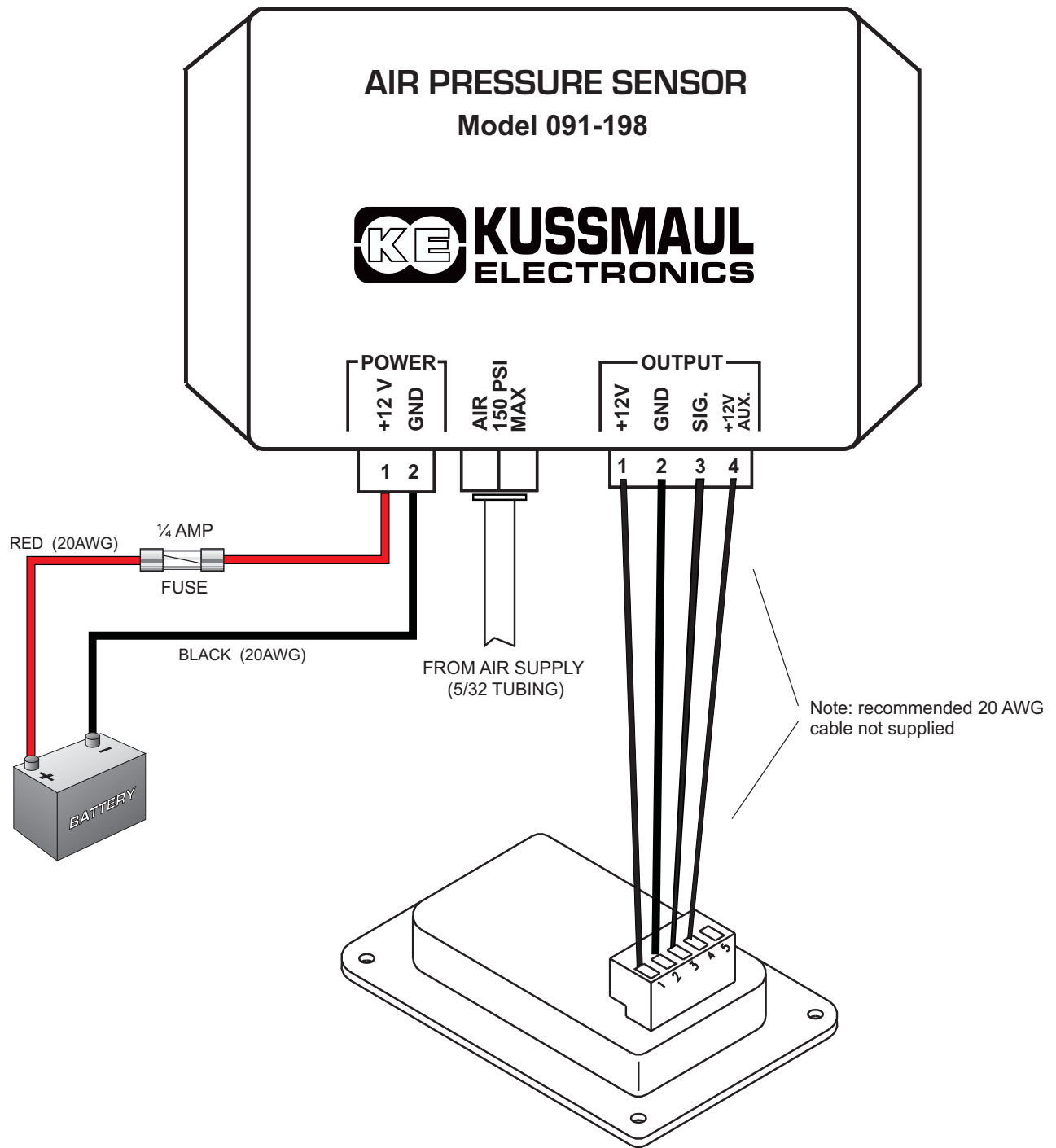
INSTALLATION INSTRUCTIONS

I. MOUNTING THE AUTO PUMP STATUS CENTER

1. Mount the pressure sensor interface in a suitable location protected from moisture and excessive heat.
2. The indicator is designed to be mounted on the exterior of a vehicle so that the PSI condition may be easily viewed.

II. WIRING THE AUTO PUMP STATUS CENTER

1. See figure 1, Wiring the Auto Pump Status Center.
2. Connect the air supply to the air pressure sensor input port using 5/32 tubing. A straight fitting, 1/8 NPT, is supplied for connecting to the air tank.
3. Connect DC input power to the 2-pin terminal. For continuous operation, supply continuous power to the pressure sensor interface.
4. Connect the indicator to the 4-pin terminal located on the pressure sensor interface.

AIR PRESSURE SENSOR

Model 091-198

KE KUSSMAUL ELECTRONICS

POWER
+12 V | GND
1 | 2

AIR
150 PSI
MAX

OUTPUT
+12V | GND | SIG. | +12V AUX.
1 | 2 | 3 | 4

RED (20AWG)

¼ AMP
FUSE

BLACK (20AWG)

FROM AIR SUPPLY
(5/32 TUBING)

Note: recommended 20 AWG
cable not supplied

BATTERY

091-198-12-PP: Wiring Instructions

SPECIFICATIONS

Input Voltage: 7-16 VDC (12 VDC nominal)
Input Current: 100 mA, maximum
Input Fuse: 250 mA (1/4 Amp)
Air Supply: 150 PSI, max
LED Voltage Set Points:
      High Voltage: 14.82 VDC and above
      Charged: 13.08 to 14.82 VDC
      Charging: 12.84 to 13.08 VDC
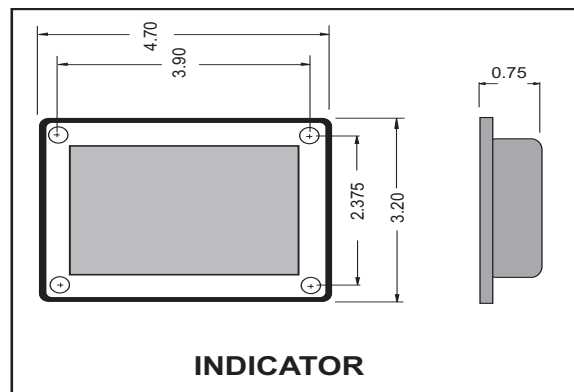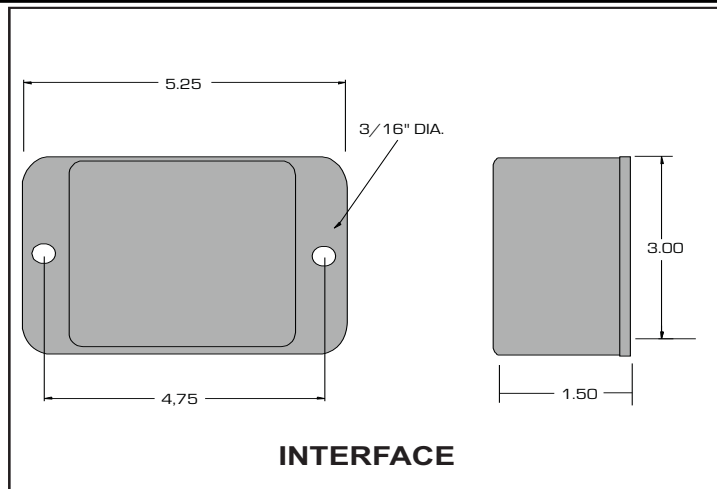   **No LEDs On**: 12.30 to 12.84 VDC
      Low Voltage: 12.30 VDC and below

Hardware Pack Provided: (1) PLBPC4-01: Fitting, Straight, 1/8 NPT X 5/32
                                (36") WIR1B-201-10: Nylon, M 5/32" O.D. Tubing
Weight: .5 pounds

OUTLINE DRAWING

INTERFACE

INDICATOR

OPTIONAL ACCESSORIES

I. INDICATOR SEAL, MODEL #: 091-39-109

- Provides a waterproof seal for the status center display

170 Cherry Avenue
West Sayville, NY 11796
www.kussmaul.com

KUSSMAUL™ ELECTRONICS
ENERGIZED AND READY, WHEN SECONDS COUNT

Ph: 800-346-0857
Fax: 631-567-5826
sales@kussmaul.com

6

INSTALLATION RECORD

DATE INSTALLED _____

INSTALLED BY _____

VEHICLE IDENTIFICATION _____

VEHICLE OWNER _____

WARRANTY POLICY

All products of Kussmaul Electronics are warranted to be free of defects of material or workmanship. Liability is limited to repairing or replacing at our factory, without charge, any material or defects which become apparent in normal use within 3 years from the date the equipment was shipped. Defective products should be returned to Kussmaul Electronics with shipping charges prepaid. Upon repair, products will be returned to customer with shipping charges paid.

Kussmaul Electronics shall have no liability for damages of any kind to associated equipment arising from the installation and/or use of the Kussmaul Electronics products. The purchaser, by the acceptance of the equipment, assumes all liability for any damages which may result from its installation, use or misuse, by the purchaser, his or its employees or others.

Made in USA

Members of
Fire and Emergency
Manufacturers and
Service Association

FEMSA

Members of
National Fire
Protection
Association

NFPA®

Members of
Fire Apparatus
Manufacturers
Association

FAMA