

Design/Application:

The EnerFlow I is a $\pm 0.25\%$ F.S. accuracy transducer signal processor. It includes an auto zero function and is available with full scale operating range as low as 693fpm (0.03" w.c. differential pressure). This ultra low full scale operating range allows the EnerFlow I to provide accurate airflow measurement down to 100 fpm.

The EnerFlow I accepts a temperature input signal for air temperature indication and air density compensation for standard or actual airflow calculations.

A password protected configuration menu provides quick and simple field configuration by authorized personnel. Field configuration of engineering units, process noise filtering, operating range, alarm set points, etc. are performed via user friendly menus and a six button touch pad. Device monitoring and configuration can also be performed by a building management system through either a LonWorks®, BACnet-MS/TP® Master or Modbus communication network.

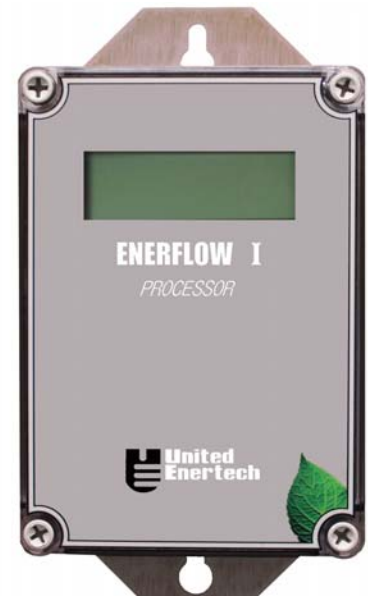
Required input power of 20 to 28 VAC or VDC. The transducer is housed in a NEMA I enclosure (standard) with a front panel mounted backlit graphical LCD providing 4 lines of data display.

Features:

- $\pm 0.25\%$ full scale accuracy (standard)
 $\pm 0.10\%$ full scale accuracy (optional)
- Full scale ranges as low as
0.03"w.c. (7.47 Pa) differential pressure or
693 fpm (3.52 m/s) velocity
- LonWorks® and BACnet® certified
- Modbus Communication
- 4 Line back lit LCD for configuration and local indication of the measured process
- Simple field configuration menus
- Controlled access to configuration menus
- Capable of receiving external temperature input for standard and actual air calculations
- Outputs and displays measured value in differential pressure, velocity or flow
- Field configurable for either English or SI engineering units
- Auto zeroing function
- Integral power switch
- High and low airflow alarms (optional)
- NEMA 1 rated enclosure (standard)
NEMA 4X rated enclosure (optional)



NEMA 1 Enclosure
(standard)



NEMA 4X Enclosure
(optional)

☐ **ENERFLOW I**
Differential Pressure
and Airflow Signal Processor

DRAWN BY:
CLJ

DATE:
11-1-13

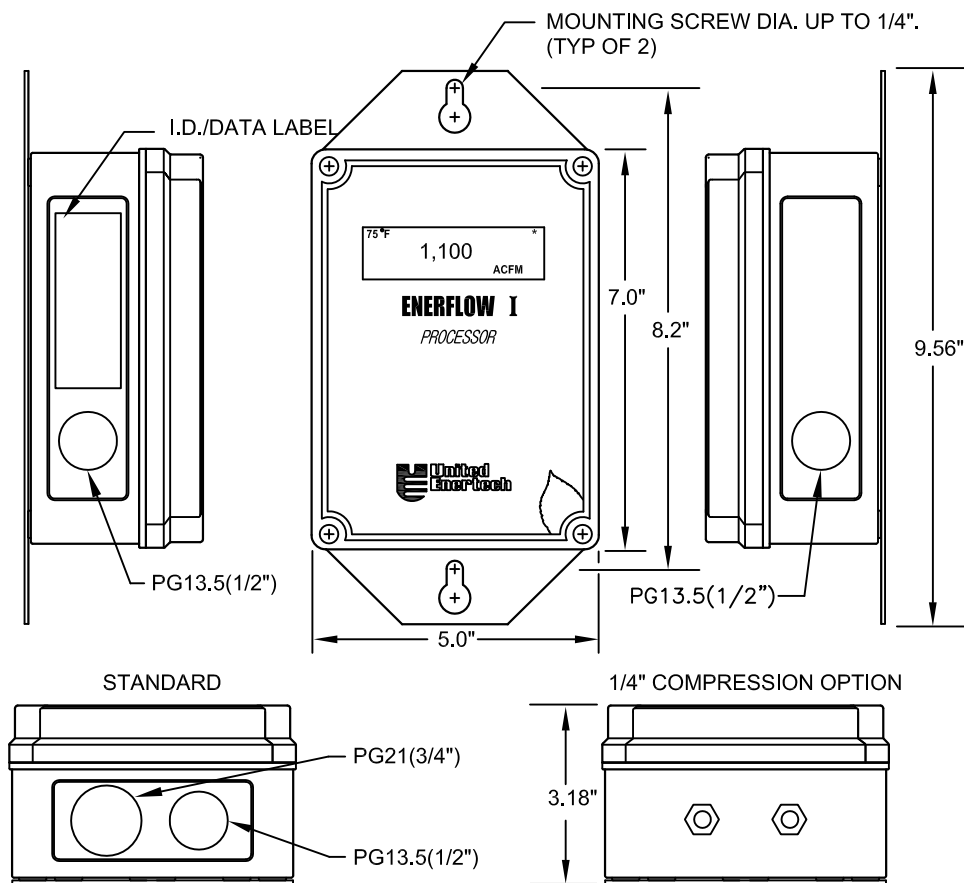
REV. DATE:
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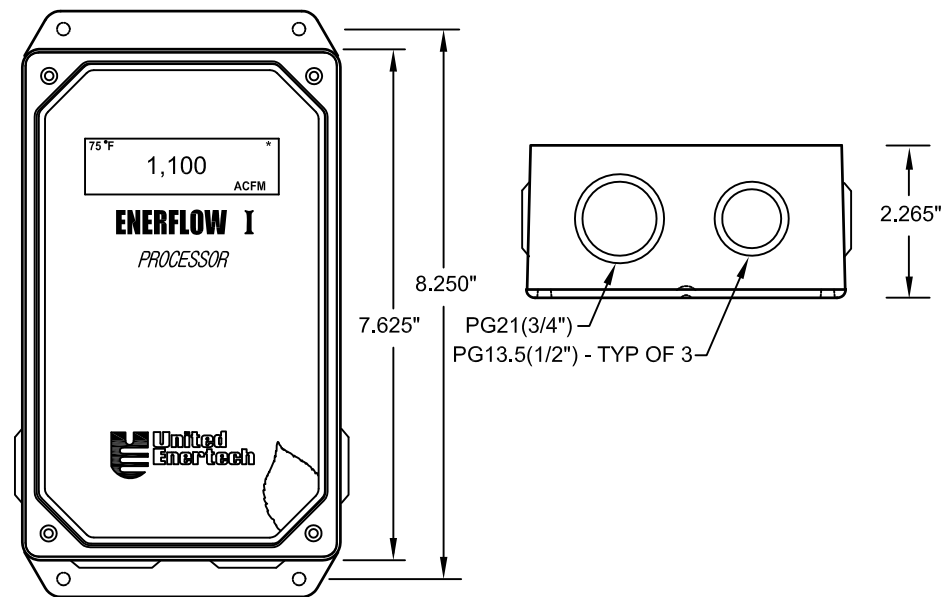
APPROVED BY:
MD

DWG. NO.:
O-2

ENERFLOW I DIMENSIONAL DATA

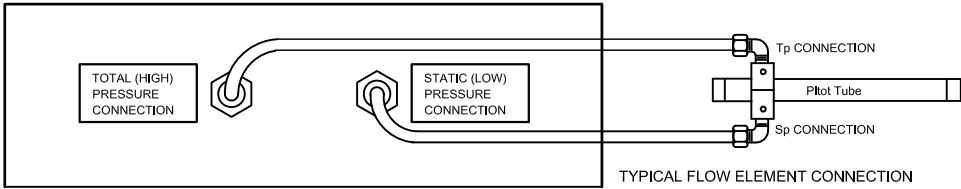
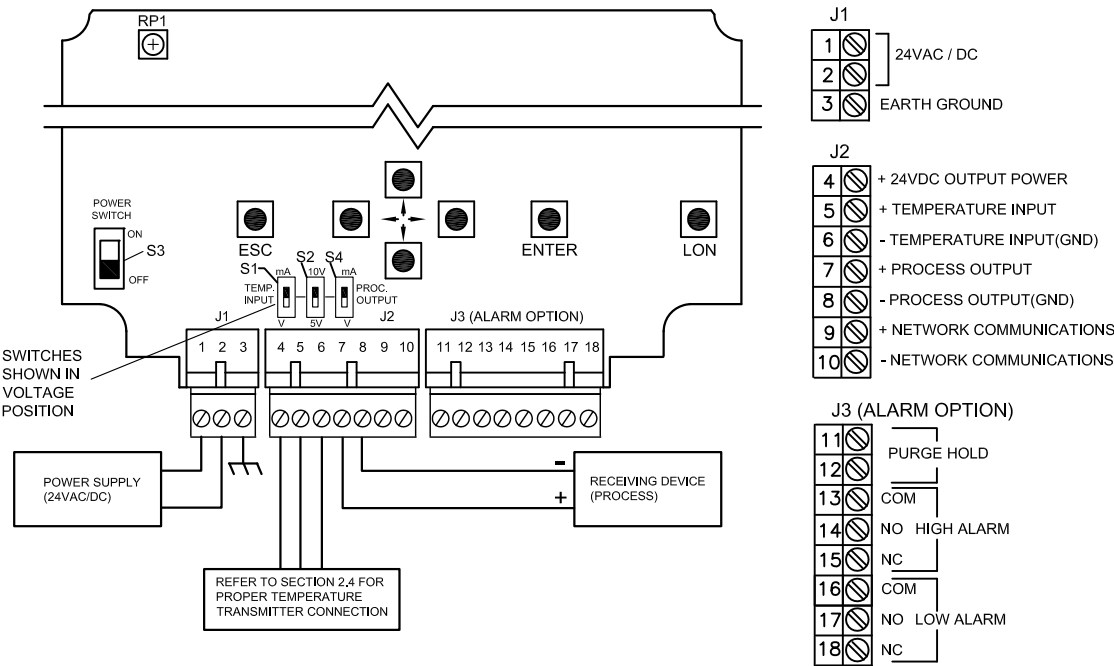


ENERFLOW I (NEMA 4X Enclosure)

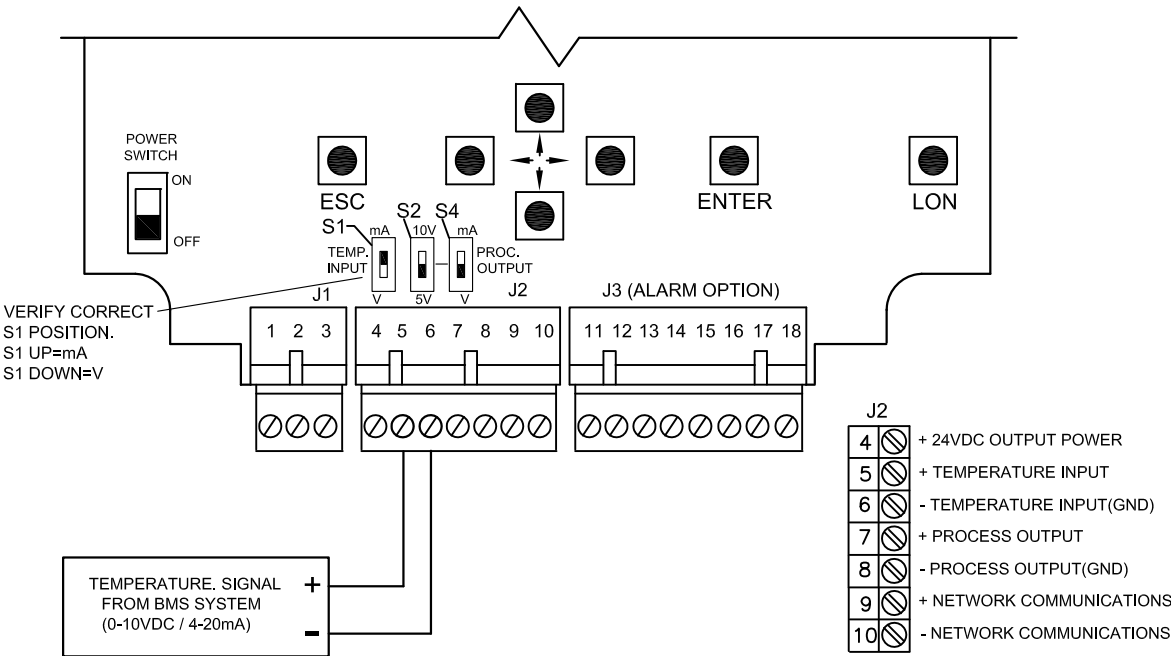


ENERFLOW I (NEMA 1 Enclosure - standard)

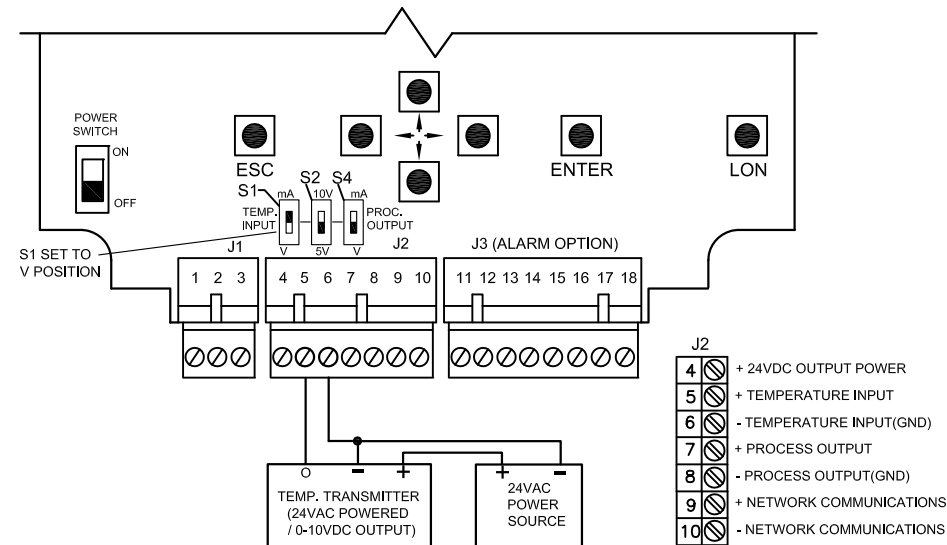
Enerflow I General Connection Code



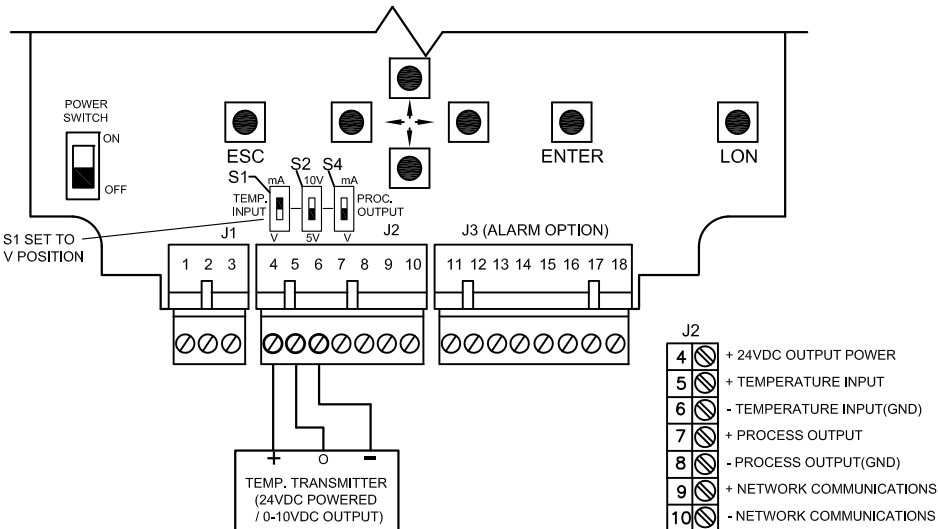
Temperature Signal Supplied by BMS System



0-10vdc Output/24vac powered 3-Wire Temperature Transmitter



0-10vdc Output/24vdc powered 3-Wire Temperature Transmitter



Loop powered 4-20mA Temperature Transmitter

