

**SITUATION**

For aesthetics and ease of installation and programming, many panel builders like to use similar meters for all measurements. As a result a single style monitor that can be used to display and control both flow and other parameters such as level is desirable.

**SOLUTION**

Badger Meter's Series 1500 provides the flexibility required by offering versions that accept either pulse or analog inputs. Most level sensors are analog output (0-1VDC, 0-5VDC, or 4-20mA).

Level Sensor Type	1500-xxx
0-1VDC	1500-12x
0-5VDC	1500-22x
0-10VDC	1500-32x
4-20mA	1500-42x

Use the following table to select the appropriate Series 1500 for the level sensor output type. The table is shown with the dual alarm set-point option included 1500-x2x, the last "x" is a placeholder enclosure type that will be selected at the time of ordering.

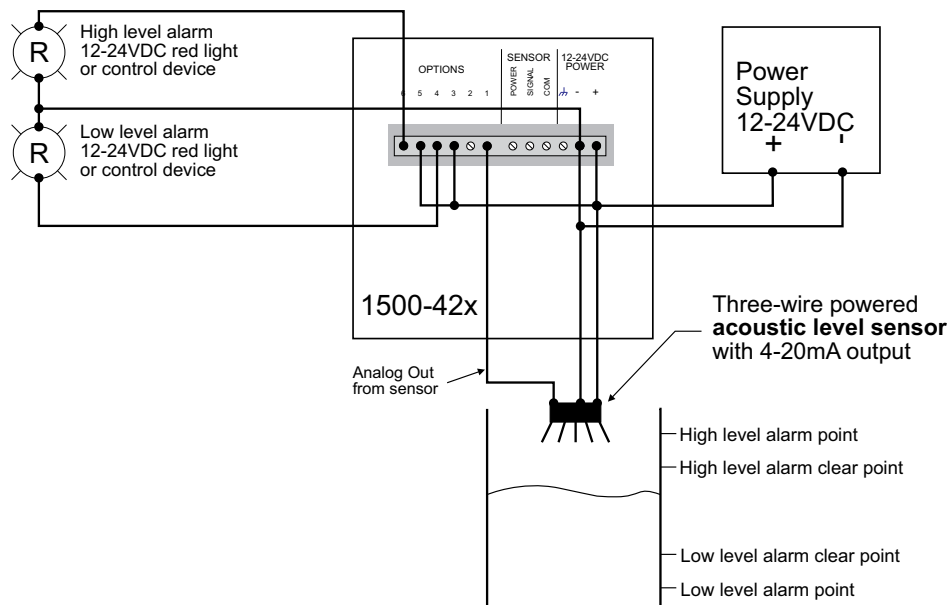
**CONFIGURATION**

Using the Series 1500 programming menu go to "MAIN rate" and then to "RATE custom" "to create a custom "LABEL" of "Feet", "Inches", "Meters", etc. Then use a "COEFF" of 1.000. Then going back to the RATE units screen selected the custom unit you just created. The Series 1500 rate display, and alarm features will now be globally computed and displayed in the custom units of level that you created.

**EXAMPLE**

The drawing below show an acoustic level sensor with a 4-20mA output where 4mA represents an empty tank 0.0 feet, and 20mA represents a full tank 4 feet. Low Level and high level alarm points are indicated by RED LED's on the Series 1500 and with contact closures to audible alarms. Depending on system requirements, the designer could also wire the relays to solenoid valves, automatic phone dialers, SKADA systems, or other devices.

Since the relays in the Series 1500 operate independently, separate thresholds, time delays and release points can be programmed for the high and low alarm points.



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