



Installing the ATLAS AIR & WATER DIGITAL FLOW METER

Installation Kit Includes

- **Gland Seal:** Use to seal cable entry.
- **"Holes in Pipe Label:** Apply to the pipe at a location that will be covered when the meter is in place.
- **"Caution" Label:** Warns not to remove meter when pipe pressurized. Apply where appropriate.
- **7/64" Hex Key:** Use to rotate meter housing.

Set-Up and Operation

- **Wiring:** Connect the three terminals in the display to the corresponding terminals in the meter. Connect power either at the display or at the meter; if power is connected at the display, the cable must be 22 gauge or larger and no longer than 60 feet.
- **Modes of Operation:** The available modes are:
 - Rate (Mode 0)
 - Daily Usage (Mode 1)
 - Cumulative Usage (Mode 2)
- **Setting the Default Mode and Decimal Point:** Hold the button pressed while applying power to the display. This will put the display in its programming mode, with a "P" on the left and a digit on the right. Pressing the button repeatedly will cycle the digit through 0, 1 and 2, corresponding to the three display modes. Select the mode to be the default and wait ten seconds with the button not pressed.

The decimal point will then be displayed in the position to be used in displaying daily and cumulative usage (in units of 1000 cubic feet or 1000 cubic meters). Press the button repeatedly to move the decimal point to the desired location.
- **Changing the Display Mode:** Press the button repeatedly to cycle the display through the three modes. The display will revert to its default mode after ten seconds.
- **Clearing Cumulative Usage, Starting Daily Usage:** To clear cumulative usage, select that mode and then press the button and hold it until the display reads zero. To set the starting time for daily usage, at the chosen time of day, select the daily usage mode and then press and hold the button for ten seconds.

Drill Guide Instructions

- **CAUTION**
 - Make sure the air pressure is bled down completely before drilling the holes.
 - Wear safety glasses.
 - Clamp the drill guide firmly in place.

Drilling the holes to install the meter will release some metal shavings into the pipe. When planning the installation, make sure that all downstream equipment is protected by filters, or take other precautions to ensure that shavings do not reach critical equipment or get blown out in a way that could cause injury.

Shut off the supply of air to the pipe where the meter will be mounted and allow the pressure to bleed down. Secure the drill guide in place using a C-clamp, a band clamp or a chain clamp. Check the arrangement and spacing of the holes against the meter you are installing. Drill the two holes and remove any resulting burrs from the outside of the pipe. Make sure the outside surface of the pipe is clean and smooth before installing the meter.

Wiring the Meter

1. The meter may be powered from its own wall plug supply or it may be powered from a 24 Volt dc supply wired to the supply terminals on the terminal strip.
2. The diagrams below (A, B and C) show three ways of wiring the milliamp output. The first provides an isolated, externally-powered output; the second and third provide current and voltage outputs, respectively, powered from the meter.
3. Diagram D below shows the wiring between the meter and the summing remote display. If the interconnecting cable is 22 gauge or larger and no longer than 60 feet, power may be connected either at the meter or at the display. Otherwise, it must be connected at the meter.
4. To prevent electromagnetic interference, cables should be shielded with the shields connected to the terminals marked dc-

DIAGRAM A

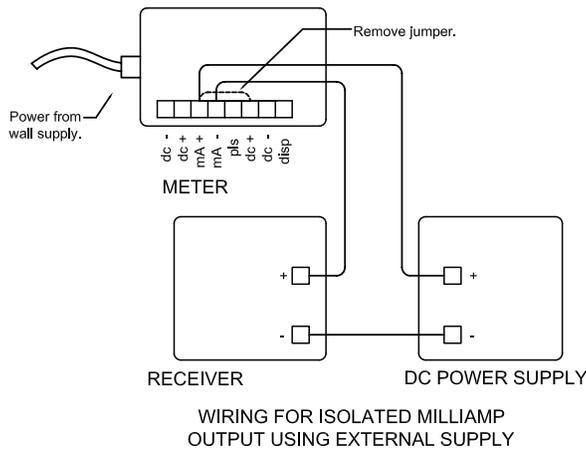


DIAGRAM C

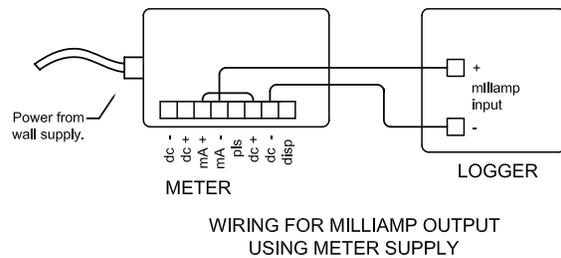


DIAGRAM B

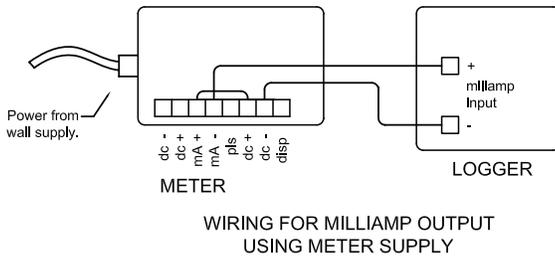
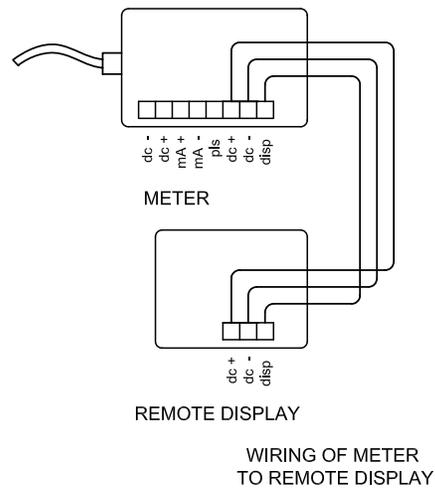


DIAGRAM D



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