

## VL9-S Pulse Remote Totalizer



### General

The VL9-S is a programmable battery powered remote totalizer that works with any switch based pulse meter that uses a reed switch type Form A pulse output. This includes 250 and 400 class diaphragm meters equipped with a DMP Pulser, as well as larger diaphragm and rotary meters equipped with a Pulimatic pulser. The VL9-S also works with a variety of water, oil and BTU meters that have switch outputs.

### Materials / Construction

All electronics are sealed in a single piece lexan cover with a wall mount back plate.

### Operating Specifications / Tech Data

Operating Temp:	-22 to 176°F (-30 to 80°C)
Meter Reading	4-8 Digit Read
Power:	3V Non-replaceable Li
Battery Life:	10 Years
Reading Distance:	500 feet (using 22G cable)
Update Frequency:	Wakes up when "tapped"

### Dimensions

4.6 wide x 4.3 high x 2" thick

For Sales & Service Contact:

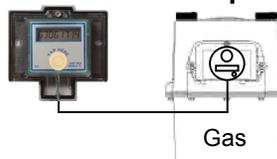
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Doc. Ref: VL9-S\_Pulse\_Tot\_v1

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### Installation & Operation Considerations



The unit is permanently sealed in a waterproof Lexan case. It can be installed inside or outside.

It has a wall mounting bracket with pre-drilled holes. (mounting HW provided)

It is not polarity sensitive. Terminate cable under the cover using the connectors provided and terminate the red and black wires according to schematic that comes with the meter

Never place the cable in a conduit with AC conductors.

The unit will wake up when you strike the "TAP" switch with something hard like the handle of a screw driver. The percussion wakes the unit up and it will display the meter read, followed by the serial number.

The battery is designed to last a minimum of 5 years. When the battery dies, simply replace with a new totalizer.

### Installation:

The totalizer should come programmed for the meter. It will have a sticker showing the read out. The sticker will have the multiplier associated with the meter.

For example:

Metris 250 & 400A Gas Meter will read in Cuft X1  
 1000A Diaphragm meter will read in CuFt x 10  
 Larger Rotary & Turbine meters read in CuFt x 100

To wake the unit up tap on the gold disk and take reading

**Programming and Re-Programming:**

To do the initial programming or to reprogram the unit you must tap in a password while the screen is illuminated

If the unit has not been programmed the Display will read: PROGRAMMING REQUIRED VL9S 1.0

The Password is:

- 4 taps
- 5 taps
- 2 taps
- 3 taps

To enter the password first tap the unit to wake it up. While the screen is still illuminated enter the first number in the password by tapping 4 times. Each tap will be registered as a comma in the upper left hand part of the screen



Wait for 2 seconds and the commas will disappear. Now enter the next number in the password by tapping 5 Times



Wait for 2 seconds and the commas will disappear. Now enter the next number in the password by tapping 2 Times



Wait for 2 seconds and the commas will disappear. Now enter the next number in the password by tapping 3 Times



If you have properly entered password the Unit will display:



It will then advance to the number of digits. It will flash



Simply tap to advance to the number of digits you want to see displayed. You can display 4 to 8 digits

Once the number of digits has been selected wait 2 seconds and the first digit to the left will appear. The default is 0. You can tap to advance each digit. There is also a decimal point/place holder that can be scrolled into position by tapping. The numbers to the right of the placeholder will be zero. This can be used if you have a meter that has fixed zeroes on the index.

Example:



Suppose the Metris 250 meter above read 2345 x 100

The pulser on this meter will always be 1 pulse/cuft. So the meter itself will not advance until it has registered 100 cubic feet, but the remote will advance every cubic foot.

You could select:

- 6 Digit readout
- Program the VL9 to read 234500

It is important to remember that the MPL9 will advance one cubic foot at time so it will have a higher resolution than the meter itself

**Helpful Conversions:**

- 1 CuFT Nat Gas = Approx 1000 BTU
- 100 Cuft of Gas = 1 Therm = 100,000 BTU

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