

- Pulses per second displayed while admix is flowing.
- AC or DC Pulsing with no Jumper Selection Required.
- Power supply can be powered from 8 to 26 Volts DC or 80 to 140 VAC.
- Internal count resets after a batch completes so that there is no carry over.
- Output is pulse shaped like the AVC for cleaner/faster batch panel counting
- PULSE Output is set to ON at power up to assist in diagnostics by using a Multi-meter to trace the Voltage on the meter pulse wire back to the Batch computer.

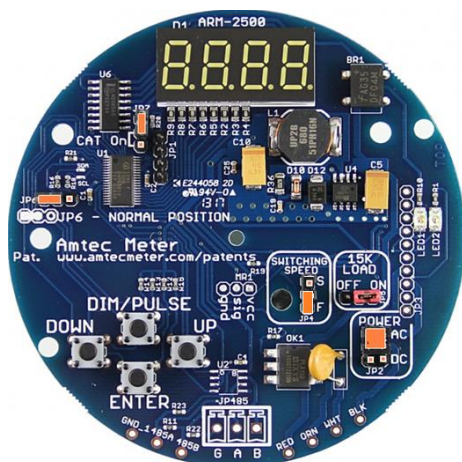


Pulses per second display while running

Buttons

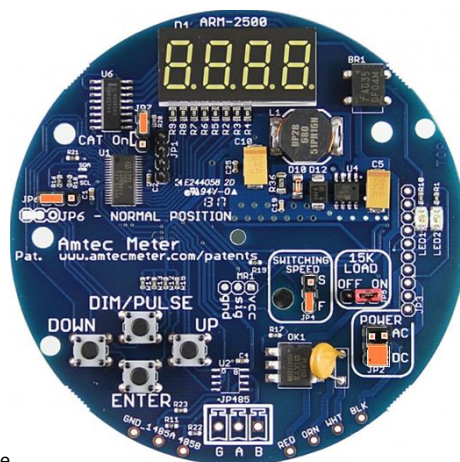
- DIM/Pulse** Larger display can be dimmed by pressing the DIM button. Pressing the DIM button on and off sends one meter pulse output to assist in trouble shooting.
- Up and Down** Use these push buttons to change the calibration factor.
- Enter** Press this button to save the calibration factor.

Jumpers



Jumpers Set for AC

*Jumper highlighted in Orange



Jumpers Set for DC

- JP2** Selects the power source voltage levels. AC is for powering the transmitter from 120VAC (80 to 140 VAC) and DC is for powering the transmitter from 8 to 26 Volts DC
- JP4** Shaped 14 pulses per second OR Fast for Variable Speed (**Typically set to Fast (F)**)

S Setting	F Setting - Default
Max 14 PPS	Matches pump speed
Fast on AC Command Alkon Panels	For use with older panels
May work better with pump	Pulse speed matches pump speed

- JP5** A 15K Ohm “Pull Down” resistor (Red Jumper) is included in the AC output circuit to accommodate a wide range of peripheral equipment in the field. The 15K resistor is connected between the meter pulse out and neutral when the jumper is placed in the ON position. Please place the jumper in the out position when using AC as the power source and DC as the switching voltage. **If unsure, then set it to OFF.**

- JP6** Calibration settings write protect jumper. If the jumper is towards small JP6 label on the transmitter which is towards the left, the calibration setting can be modified and stored. If the JP6 jumper is towards the middle of the transmitter or away from the small JP6 label on the transmitter or removed completely the calibration settings cannot be saved. **Normally set to OFF or to the left as shown on the picture of the transmitters above.**
- JP7** Enables Calibration Assistant Technology (CAT). This is normally off. The CAT system assists in the calibration process by monitoring and holding the pulse counts while a calibration is being performed. The DIM button is pressed at the start of each calibration run to reset the count to zero. The LED display will count every pulse and display the total. This is like having an external panel meter/counter attached to the transmitter. The output to the batch panel is not affected and operates normally while in CAT mode. **Normal operation should have JP7 jumper set to OFF.**

LEDS

- GREEN LED** The GREEN LED is lit to show power is on. The GREEN LED turns off if the calibration setting displayed is not the stored calibration factor. Once you store the displayed calibration factor it will turn green again.

Green LED ON	Green LED OFF	Green LED ON
The number displayed on the screen is the stored Calibration factor that has been saved by pressing enter	The number displayed on the screen is a "NON stored factor"	Enter button pushed – Calibration factor was saved

- RED LED** The Red LED pulses with meter pulse. Red LED and PULSE Output is set to ON at power up to assist in diagnostics by using a Multimeter to trace the voltage on the meter pulse wire back to the Batch Computer.

Error messages

Displayed	Error	Description
<i>Error 1</i>	Error 1	System failed to boot from a hardware error.
<i>Error 2</i>	Error 2	System failed to boot from a communication error.

Calibration Table is at www.amtecmeter.com

5/8" METER Factor (Oz) 4.5		5/8" METER Factor (ml) .1522		3/4" METER Factor (Oz) 2.51		3/4" METER Factor (ml) .0845		1" METER Factor (Oz) 1.1764		1" METER Factor (ml) .0403	
Ounce / Pulse	L.E.D. Setting	Milliliter / Pulse	L.E.D. Setting	Ounce / Pulse	L.E.D. Setting	Milliliter / Pulse	L.E.D. Setting	Ounce / Pulse	L.E.D. Setting	Milliliter / Pulse	L.E.D. Setting
1/4	.8870										
1/2	.4428	10	.6570	1/2	.7968						
1	.2220	30	.2190	1	.3984	30	.3925	1	.8500	30	.8271
2	.1115	50	.1314	2	.1992	50	.2359	2	.4250	50	.4963
3	.0740	60	.1095	3	.1328	60	.1965	3	.2830	60	.4136
4	.0563	100	.0657	4	.0996	100	.1181	4	.2125	100	.2481
5	.0455	150	.0438	5	.0790	150	.0758	5	.1700	150	.1654
6	.0370	200	.0330	6	.0663	200	.0558	6	.1417	200	.1241
8	.0278	250	.0263	8	.0499	250	.0450	8	.1080	250	.0993
10	.0222	300	.0220	10	.0399	300	.0392	10	.0850	300	.0827
12	.0185	450	.0145	12	.0330	450	.0225	12	.0700	450	.0551
16	.0140	1000	.0066	16	.0250	1000	.0117	16	.0535	1000	.0248
32	.0069			32	.0125			32	.0265		

A certified test bench is utilized to factory test all meters and pulse transmitters, to determine the standard initial calibration setting, as shown on this form. Flow rates, pressure and the operation of valves, may effect the actual volumetric results. Therefore, all meters should be tested in each specific installation and calibrated accordingly.

If a lesser quantity is desired in the container, increase the rotary switch setting.

If a greater quantity is desired in the container, decrease the rotary switch setting.

If the desired amount in the container is not achieved exactly, then further calibration can be effected by utilizing the formula:

$$\frac{\text{Quantity in container (oz or ml)}}{\text{Quantity desired in container (oz or ml)}} \times \text{Present L.E.D. setting} = \text{New L.E.D. setting}$$

In other words, divide the Quantity of the amount in the container by the quantity desired and then multiply the result by the present rotary switch setting (including the decimal point) and the result will equal the new L.E.D. setting.

Wire Color	Description
Black	Supply Power AC L1 (Hot) or DC – (Negative) 80 to 140 VAC
Orange	Switching Output to Batch Panel
Red	Switching Power Input
White	Supply Power AC L2 (Neutral) or DC + (Positive) 8 to 26 Volts DC