

## 1.5" Gas Meter (EKM-PGM-150) Spec Sheet



### I. Functions and Characteristics

- 1.) 1.5" gas flow meter for measuring gas usage in cubic feet.
- 2.) No power source required.
- 3.) Pulse output for remote reading.

### II. Technical Specifications

- 1.) Dimensions: 12.2" Tall x 8.5" Wide x 11.2" Deep, or: 310 x 216.8 x 284mm
- 2.) No power source required
- 3.) Pulse Rate: 1 pulse per cubic foot
- 4.) Casing: Steel
- 5.) Connection Thread: NPT 1.5 Inch
- 6.) Inlet and outlet separation (to center): 180 mm
- 7.) Direction of inlet: Left in, right out
- 8.) Nominal flow-rate ( $Q_n$ ): 352.5 ft<sup>3</sup>/h
- 9.) Minimum flow-rate ( $Q_{min}$ ): 35.25 ft<sup>3</sup>/hr
- 10.) Maximum flow-rate ( $Q_{max}$ ): 565 ft<sup>3</sup>/hr or about 565,000 BTU/ hour.
- 11.) Minimum Operating Pressure: 0.0435 psi
- 12.) Maximum Operating Pressure: 4.35 psi
- 13.) Total pressure absorption:  $\leq 200$  Pa
- 14.) Cyclic: 0.07 ft<sup>3</sup>/rev
- 15.) Permissible Error:  $Q_{min} \leq Q < 0.1 Q_{max} \pm 3\%$   
 $0.1 Q_{max} \leq Q \leq Q_{max} \pm 1.5\%$
- 16.) Min. Recording Reading: 0.07 ft<sup>3</sup>
- 17.) Max. Recording Reading: 9999999.9 ft<sup>3</sup>
- 18.) Readout is in cubic feet, with resolution to tenths
- 19.) Operating ambient temperature: -4~122 °F
- 20.) Service life:  $\geq 10$  years
- 21.) Can measure: Artificial coal gas, natural gas, liquefied petroleum gas, air, propane, inert gases or any other non-corrosive gas
- 22.) Weight: 9 lbs., 8 oz. Or: 4.3kg
- 23.) Meter design according Standards: OIML R31 or EN1359
- 24.) Index cover: Printed index cover of polycarbonate
- 25.) Surface Paint: polyester powder coat

### III. Pulse Output

- 1.) Use in conjunction with our EKM-Omnimeter Pulse v.4 for remote metering applications.
- 2.) The EKM-Omnimeter Pulse v.4 has ports for three separate pulse inputs (ports 11, 12 and 13). All of the pulse input devices share a common ground wire (Port 14). These wires can be up to 200 feet long.
- 3.) Connect the red wire from the gas meter to either port 11, 12, or 13. Connect the yellow wire to port 14. See (Fig. 1)
- 4.) The easiest way to power the EKM-Omnimeter Pulse v.4 is with 110v AC. Connect a hot leg into port 7 & the neutral into port 10.
- 5.) For more information on how to read this meter remotely, please refer to the various communication devices that we offer on our website.

### IV. Operation

This meter can be used as a traditional gas meter where you read the gas consumption off of the face of the meter. It also has the added functionality of being able to connect the pulse-output wires to a pulse counting device. This meter produces a pulse for every cubic foot (approx. every 0.0283 cubic meters) that flows by the meter. This pulse-output gas meter can be connected to our EKM-Omnimeter Pulse v.4 (see Fig. 1). The pulse counting devices can then be connected to a computer, either locally or over the internet.

### V. Installation

- 1.) We recommend that this meter be installed by a qualified plumber.
- 2.) Should be mounted vertically with the inlet/outlet pointing up.
- 3.) Use teflon tape or pipe dope when connecting pipe fittings to the meter's NPT pipe threads.



(Fig. 1)