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: 330mm tall x 310mm wide x 220mm deep
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): 200 mm
7.) Direction of inlet: Left in, right out
8.) Nominal flow-rate (Qn): 352.5 ft3/h
9.) Minimum flow-rate (Qmin): 35.25 ft³/hr
10.) Maximum flow-rate (Qmax): 565 ft³/hr
- Natural Gas: 581,950 BTU/hr
- Propane: 1,405,720 BTU/hr at 60ºF (temperature dependent)
11.) Minimum Operating Pressure: 0.0435 psi
12.) Maximum Operating Pressure: 4.35 psi
13.) Total pressure absorption: ≤200 Pa
14.) Cyclic: 0.07 ft³/rev
15.) Permissible Error: Qmin ≤ Q < 0.1 Qmax ± 3%
16.) 0.1 Qmax ≤ Q ≤ Qmax ±1.5%
17.) Min. Recording Reading: 0.07 ft³
18.) Max. Recording Reading: 9999999.9 ft³
19.) Readout is in cubic feet, with resolution to tenths
20.) Operating ambient temperature: -4~122 °F
21.) Service life: ≥10 years
21.) Can measure: Artificial coal gas, natural gas, liquefied petroleum gas (when gaseous), air, propane, inert gases or any other non-corrosive gas
23.) Weight: 9 lbs., 8 oz. Or: 4.3kg
24.) Meter design according Standards: OIML R31 or EN1359
25.) Index cover: Printed index cover of polycarbonate Surface Paint: polyester powder coat
26.) Wires: White is ground. Red is a tamper signal wire that is always closed unless a magnet is used to taper with the pulse output. Blue and Green are both pulse output wires that are normally closed but open once per cubic foot of gas that the meter reads.

III. Pulse Output

1.) Use in conjunction with our v.4/v.5 Omnimeters for remote metering applications.
2.) The v.4 and v.5 Omnimeters have ports for three separate pulse inputs (ports 11, 12 and 13). All of the pulse input devices share a common ground wire (Port 14). The wires can be up to 10,000 ft long.
3.) If your gas meter has 4 wires available from a Zenner module: Connect the blue or green wire to either port 11, 12, or 13. Connect the white wire to port 14.
If your gas meter has 4 wires available (Pulse module does not have Zenner printed on it): Connect the red wire to either port 11, 12, or 13. Connect the blue wire to port 14.
If your gas meter has 2 wires available: Connect the red wire to either port 11, 12, or 13. Connect the yellow wire to port 14.
5.) The easiest way to power the Omnimeter Pulse v.4 is with 110v AC. Connect a hot leg into port 7 & the neutral into port 10.
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. 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. Should be installed outdoors unless your local gas design standard specifies otherwise.
3.) Use teflon tape or pipe dope when connecting pipe fittings to the meter's NPT pipe threads.

Dimensions

Model	H	W	D	E	A
EKM-PGM-150	330mm	310mm	95mm	220mm	200mm