# EKM METERING INC.

## 3/4” Pulse Output Gas Meter (EKM-PGM-075) Spec Sheet


### I. Functions and Characteristics

- 3/4” gas flow meter for measuring gas flow in cubic feet.
- With pulse-output communication for remote reading.
- No power source required.

### Technical Specifications

1.) No power source required
2.) Casing: Steel
3.) Threaded Adapters: 3/4” NPT thread
4.) Distance Between Inlet and Outlet: 133mm, on center
5.) Direction of Flow: left in, right out
6.) Reed Switch: OKI-ORD324
7.) Pulse Output: 1 pulse = 1 $ft^3$
8.) Min pulse time: ≥ 2.4 seconds
9.) Contact Resistance: 0.1 ohms
10.) Contact Rating: 10W
11.) Max Voltage and Amperage: 12VDC, 830mA
12.) Nominal flow-rate (Qn): 141 $ft^3$/hr
13.) Minimum flow-rate (Qmin): 1.41 $ft^3$/hr
14.) Maximum flow-rate (Qmax): 211$ft^3$/hr
- Natural Gas: 217,330 BTU/hr
- Propane: 524,968 BTU/hr at 60ºF (temperature dependent)

15.) Minimum Operating Pressure: 0.0725 psi
16.) Maximum Operating Pressure: 7.25 psi
17.) Total Pressure Absorption: ≤ 0.029 psi
18.) Cyclic Volume: 0.042 $ft^3$/rev
19.) Permissible Error:
Qmin≤Q<0.1Qmax ± 3%
0.1Qmax≤Q≤Qmax ±1.5%
20.) Min. Reading: 0.02 $ft^3$
21.) Max. Reading: 9999999.9 $ft^3$
22.) Readout is in cubic feet, with resolution to tenths
23.) Operating Temperature: -20~+50 °C
24.) Service life: ≥12 years
25.) Uses: Artificial coal gas, natural gas, liquefied petroleum gas (when gaseous), air, propane, inert gases, or any other non-corrosive gas
26.) Weight: 4 lbs., 10 oz. or: 2.1kg
27.) Meter Standards: OIML R31 or EN1359
28.) Meter Dial Cover: transparent polycarbonate

### 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 10,000 feet long.
3.) 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.
If your gas meter has 4 wires available: Connect the red wire to either port 11, 12, or 13. Connect the black wire to port 14.
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 through 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 using the EKM Push system.

### 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.) Should be installed outdoors unless your local gas design standard specifies otherwise.
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-075 | 224mm | 195mm | 67mm | 164mm | 130mm |