

TURBINE FLOWMETERS BY HOFFER

Perfecting Measurement™

PET SERIES

Digital to Analog Converter Mag Type
(for use with Lo-Co and TriFlo Series)

Product Bulletin PET-102E

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

The PET Series converter receives frequency input and converts it to a proportional 4-20mA or 0-10V analog output. It has been designed to fit a compact "ELBY" explosion-proof enclosure. The frequency range is field selectable to fit most applications. ZERO and SPAN adjustments make it easy to calibrate to almost any measurement range. This PET is designed for use with the Lo-Co Series and TriFlo Series flowmeters.

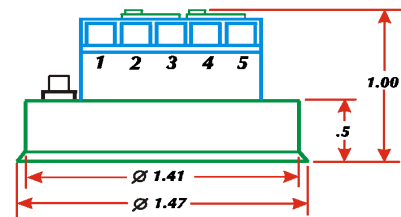
SPECIFICATIONS

Supply Voltage:	9 – 30 VDC
Supply Current:	< 4.0 mA
Input Protection:	100 VAC, reversed leads
Output Protection:	Short to 0 VDC, Common or Signal out Continuous
Frequency Input Range F:	Hi: max full scale 10 kHz min full scale 1100 Hz Lo: max full scale 1200 Hz min full scale 75 Hz
Input Sensitivity:	Standard 12 mVpp
Linearity:	0.5% max., 0.15% typical
Output Settling Time:	Full scale change to 95% of final value 100ms to 3 sec
Output Ripple and Noise:	.2 mA max p-p, 1% of full scale .02 mA typical, .01% of full scale
Temperature Coefficient:	25° to 40°C, 0.13%/°C
Operating Temp. Range:	-40° to +85°C (-40° to +185°F)
ZERO/SPAN Adjustment Interaction:	< 1%
3 WIRE OUTPUT VERSION:	20 mA Range
Minimum Output Current:	0.07 mA
Maximum Output Current (Full Scale Min. Cal., Zero Cal. Set to 4 mA):	24.1 mA
Load Resistance:	
<(+V - 6v)/ 20 mA output:	+V=12v: < 300 ohms +V=24v: < 900 ohms
Terminal Connections:	1. Input VDC 4. Mag Pickup 2. Common 5. Mag Pickup 3. Signal Out
CE-Compliance:	EN55011, EN55022-2

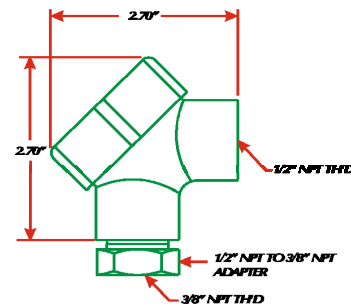
MODEL NUMBERS

PET-1	0 to 10 VDC analog output
PET-3	4 to 20 mA analog output 3-wire
PET-7	4 to 20 mA analog output 2-wire

DIMENSIONAL INFORMATION

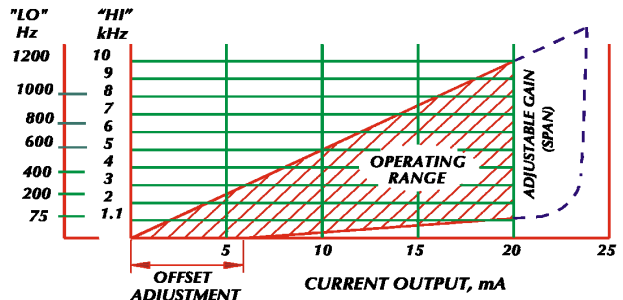


General Purpose



Explosion-Proof

FREQUENCY INPUT RANGE



Frequency Input vs. Current Output
Operating Range

ORDERING INFORMATION

PET- (A) - (B) - (C)

OUTPUT

- 1 0 to 10 VDC Analog
- 3 4 to 20mA output 3-Wire Analog
- 7 4 to 20mA output 2-Wire Analog

ENCLOSURE

- 1 General Purpose
- 2 ELBY Type Explosion Proof Enclosure
CLASS I DIV 1 & 2, GROUPS C & D
CLASS II, DIV 1 & 2 GROUPS E, F & G
CLASS III
UL & CSA LISTED

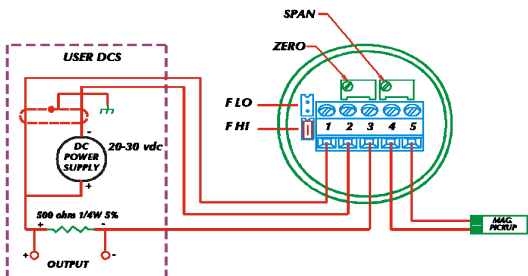
OPTIONS

- (X) None
- (1) 1/2" MNPT x 1" FNPT adapter for use with ELBY Enclosure to Mount to Standard 1" Flowmeter Riser
- (CE) Mark required for Europe

TYPICAL INSTALLATION WIRING

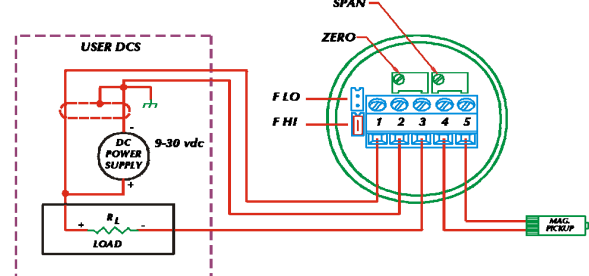
Model PET-1

0 - 10 VDC Analog Output



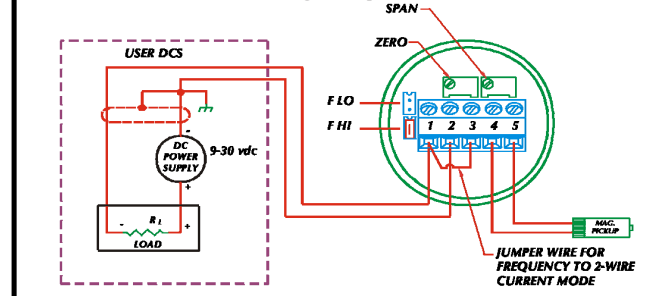
Model PET-3

4 - 20 mA Analog Output • Three Wire



Model PET-7

4 - 20 mA Analog Output • Two Wire



HOFFER FLOW CONTROLS, INC.
107 Kitty Hawk Lane, P. O. Box 2145, Elizabeth City, NC 27906-2145
800-628-4584 252-331-1997 FAX 252-331-2886
www.hofferflow.com email: info@hofferflow.com

The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacturer that the specifications are currently in effect. Otherwise, the manufacturer assumes no responsibility for the use of specifications which may have been changed and are no longer in effect.

