



Features

- Portable, Lightweight Construction
- Internal Battery Operation or Optional AC converter
- 2 Vdc Analog Output Standard
- Optional Features Include 2 Wire, 4-20 mA Current Loop
- Mode Switch for Linear/Square Root Outputs

Description

The CD379 is a portable, completely self-contained digital transducer indicator. In addition to the front panel liquid crystal digital display, the unit also provides a 2 Vdc analog output suitable for recording, remote display or control purposes.

The unit is for use with all variable reluctance transducers and features solid state electronics, 3½ digit liquid crystal display and battery pack with six 1.5V penlight cells for truly portable operation. The unit can also be powered from an external DC power supply or AC battery eliminator (converter) module.

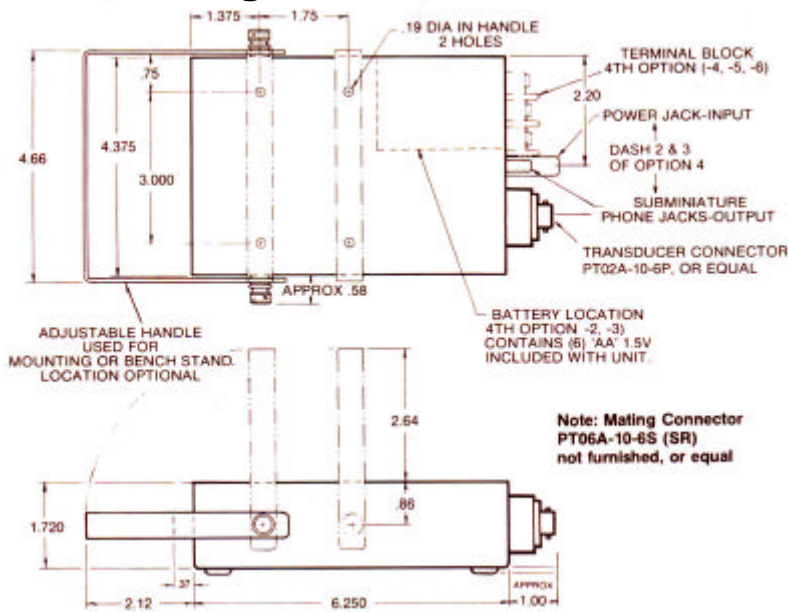
The CD379 provides transducer excitation and signal conditioning zero and span controls. The 3½ digit display provides up to ± 1999 counts for full-scale output from the transducer. An analog output of ±2Vdc is available on the rear panel. The transducer may be located up to 1000 feet away.

Optional features include 2-wire, 4 to 20 mA current loop output; AC powered battery eliminator power source, mode switch for linear/square root options and universal mounting brackets for panel mounting – either front or rear mount – or top or bottom shelf mounting arrangements.

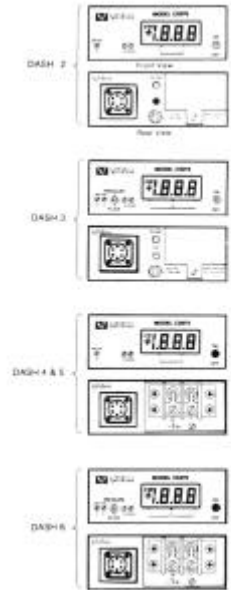
Specifications

Input Sensitivity:	Adjustable ±15mV/V to ±100mV/V
Transducer Excitation:	1.2V 5K Hz square wave
Output:	Analog: ±2Vdc into 10K or greater Digital: ± 1999 counts max.
Output Impedance:	100 ohms nominal
Frequency Response:	Linear: 100 Hz for analog output Square Root: 0 to 20 Hz for analog output
Zero Adjust Range:	±10mV/V
Temperature Range:	0 to 160°F
Input Power:	1.5V AA penlight cells; external 8 to 32 Vdc power supply; or, optional AC adapter (auxiliary input power jack and plug provided) Two-wire, 4-20 mA Transmitter options: External 14 to 40 Vdc power supply only.
Output Signal Connections:	Voltage output units: subminiature phone jack, Switchcraft #TR-2A "Microjax" or equal; two provided on dual output version; mating plug(s) p #850 or equal provided. 2 wire 4-20 mA connection. 2 wire terminal strips.
Transducer Connector:	PT02A-10-6P, or equivalent.
Weight:	27 ounces, including batteries
Mating connector:	PT06A-10-6S (SR) or equal, not furnished
Mounting:	May be panel mounted, or secured to horizontal or vertical surfaces using universal brackets (see Accessories).

Installation Drawing



Connector Wiring Diagram



Note: 3 1/2 Digit display shown

Ordering Information

CD379 - 1 - 2

Display	
1	= 3 1/2 Digit
2	= 4 1/2 Digit **
3	= ----

** Final position is fixed by zero

Dash #	Pressure (Linear) Output			Flow (Sq. Root) Output	Input Power
	-FS	Zero	+FS		
Voltage Output					
1	-	0 Vdc	2 Vdc	-	Battery
2	-2 Vdc	0 Vdc	+2 Vdc	-	Battery
3	-	0 Vdc	+2 Vdc	$E_0 = 2 \frac{P_{IN}}{P_{FS}}$ (Vdc)	Battery
Current Output					
4	-	4 mA	20 mA	-	External
5	4 mA	12 mA	20 mA	-	External
6	-	4 mA	20 mA	$I_0 = 4 + 16 \frac{P_{IN}}{P_{FS}}$ mA dc	External
7	-	0 Vdc	+2 Vdc	$E_0 = \frac{P_{IN}}{P_{FS}}$ (Linear)	Battery
8	-2 Vdc	0 Vdc	+2 Vdc	$E_0 = \frac{P_{IN}}{P_{FS}}$ (Linear)	Battery

Accessories

Mating Connector P/N 1280-1002

Mounting Brackets P/N 11330-Front or Back

P/N 11331-Top or Bottom

Notes:

- Decimal Points:** (Decimal point standard locations.)
User-selectable decimal point locations are:

1. X. X. X. 0.

When specifying Range (or Ranges, for output options 2 and 5), show full-scale value, engineering units and decimal point location(s); e.g. 15.00 psia, 100.0 CFM, 5.00 in H₂O, etc. (Display range is 0000 thru 19990.) Final position is fixed zero.

- Display Engineering Units Available: PSI, mmHG, cmH₂O, in H₂O, Press%, in Hg, CFM, LPM, GPM, FLOW%, Torr, kPa, PSIA. Other Engineering Units available – consult factory.

Specifications subject to change without notice



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