PRESSURE



DIFFERENTIAL LOW PRESSURE TRANSMITTER **DPA3 SERIES**

DESCRIPTION

The **Kele DPA3 Series Differential Low Pressure** is based on a piezoresistive, silicon sensing element which senses Differential Pressure and provides an analog output. The hinged cover on the **DPA3** can be easily opened using the integrated locking tab on the side of the enclosure. This allows for easy access to the zero function and field selectable ranges and outputs. The **DPA3 Series** also includes an optional, five digit LCD for installation and monitoring support.

The standard accuracy of this series is $\pm 0.5\%$ FSO. Field selectable analog outputs include 0-5 and 0-10 VDC, or 4-20mA which correlate to a uni or bidirectional pressure range from 0-0.1" up to 0-40" of water column, depending on your model selection. Each unit has up to 8 field selectable, uni or bidirectional ranges.

FEATURES

- ± 0.5% FSO (NIST available)
- Field selectable output 0-5V, 0-10V, 4-20 mA
- 0.1 to 40" WC (model dependent)
- 8 Files selectable ranges

SPECIFICATIONS

NEW!







DPA3

APPLICATIONS

- Building and duct static pressure
- Filter monitoring
- Air flow measurement
- Process control

	SPECIFICATIONS					
	Supply Voltage	4-20 mA output; 16-36 VDC	Operating Temperature -4 to 185°F (-20 to 85°C)			
5		(250Ω load max.) / 22-36 VDC	Compensated Tempera	3		
-		(500 Ω load max.)		32 to 122°F (0 to 50°C)		
		0-5 VDC / 0-10 VDC output;	Storage Temperature	-22 to 185°F (-30 to 85°C)		
		16-36 VDC / 24 VAC (+/-10%)	Operating Humidity	10 to 95% RH, non-condensing		
	Supply Current	4-20 mA output; 24 mA minimum /	Media Types	Dry air or inert non-conductive gases		
	Ke	0-5 VDC / 0-10 VDC output;	Enclosure Material	Flame Retardant Polycarbonate;		
		6 mA max.)		UL94-5VA		
	Output Signals	Current output; 4-20 mA, 2-wire loop	Wiring Connections	Finger pushbutton (spring) terminal		
		powered (standard); (Current limited	3	blocks; accepts 16-24 AWG wires		
	~	to 21.4 mA max)	Conduit Knockouts	Watertight cordgrip installed		
	e.	Voltage signals; 0-5 VDC/ 0-10		(1/2" NPT conduit fittings accepted		
_		VDC Field selectable, 3-wire; output		when Cordgrip removed)		
		limited @ 5.25 & 10.5 VDC)	Pressure Fitting			
	Response Time	(0-100% FSO) 8 seconds	Material	Nickel Plated Brass or Stainless		
	Output Data Rate	1 second	Material	Steel		
	Pressure Ranges	Multi range units (see ordering guide)	Tubing Size Accepted	1/4" O.D. x 0.170" I.D. Poly Tubing		
	Accuracy	$\pm 0.5\%$ FSO	Dimensions	4.25"L x 2.25"W x 6.125"H		
	Zero Function	Pushbutton Zero Function	Weight	4.20 E X 2.20 W X 0.120 H		
	Thermal Effects	+/-0.067% FSO /°F (0.12% FSO/°C)	No Pitot Tube or Din F	Pail		
	Proof Pressure or	+/-0.007 % F307 F (0.12 % F307 C)	NO FILOL TUDE OF DIT	Non-LCD Display Version: 0.53 lbs		
	Burst Pressure	DPA3-1, Proof: 270 inWC (67.2 kPa)		(0.240 Kg) LCD Display Version:		
	Buist Pressure	, , , , , , , , , , , , , , , , , , , ,				
	ale	/ Burst: 415 inWC) (103.3 kPa) for 1		0.58 lbs (0.263 Kg)		
	Ke	inWC (249.8 Pa)	With Pitot Tube & Din	-		
		DPA3-10, Proof: 350 inWC (87.12		Non-LCD Display Version: 0.80 lbs		
		kPa) / Burst: 550 inWC) (139.9 kPa)		(0.363 Kg) LCD Display Version:		
		for 10 inWC (2490.8 Pa)		0.85 lbs (0.385 Kg)		
		DPA3-40, Proof: 562 inWC (140	Approvals	CE, RoHS, REACH, WEEE		
		kPa) / Burst: 1004.7 inWC) (250	Warranty	5 years		
		kPa) for 40 inWC (9963.6 Pa)		-		

NEW!



DIFFERENTIAL LOW PRESSURE TRANSMITTER **DPA3 SERIES**





WIRING

Shielded is recommended cable with 16 to 24AWG conductors. The hinged cover must be opened to connect wires to the unit's finger push-button terminal blocks. Each unit can be configured to three output signals: 4-20mA, 0-5V or 0-10V. Use the table below to determine the proper wiring for your application.

Output Signal	Output Mode	Output Signal	Supply Voltage	Ket	Wire Connections		
	(SW1)	(SW3 Position 4)		Red	Black	White	Yellow
0-5 VDC	Vout	5V	VAC/VDC	V+	COM	VOUT	n/c
0-10 VDC	Vout	10V	VAC/VDC	V+	COM	VOUT	n/c
4-20 mA	mA	n/a	VDC	V+	n/c	n/c	IOUT

n/a=Not Applicable

n/c=No Connection

ORDERING INFORMATION

MODEL	DESCRIPTION
DPA3-1	Differential Low Pressure, 4 to 20 mA, Unidirectional 0-0.1", 0-0.2", 0-0.5", 0-1" WC
	Bidirectional +/-0.1", +/-0.2", +/-0.5", +/-1" WC, No LCD
DPA3-1-LCD	Differential Low Pressure, 4 to 20 mA, Unidirectional 0-0.1", 0-0.2", 0-0.5", 0-1" WC
	Bidirectional +/-0.1", +/-0.2", +/-0.5", +/-1" WC, With LCD
DPA3-10	Differential Low Pressure, 4 to 20 mA, Unidirectional 0-1", 0-2", 0-5", 0-10" WC
	Bidirectional +/-1", +/-2", +/-5", +/-10" WC, No LCD
DPA3-10-LCD	Differential Low Pressure, 4 to 20 mA, Unidirectional 0-1", 0-2", 0-5", 0-10" WC
	Bidirectional +/-1", +/-2", +/-5", +/-10" WC, With LCD
DPA3-40	Differential Low Pressure, 4 to 20 mA, Unidirectional 0-10", 0-20", 0-30", 0-40" WC
	Bidirectional +/-10", +/-20", +/-30", +/-40" WC, No LCD
DPA3-40-LCD	Differential Low Pressure, 4 to 20 mA, Unidirectional 0-10", 0-20", 0-30", 0-40" WC
	Bidirectional +/-10", +/-20", +/-30", +/-40" WC, with LCD
PT-DPA3	Static Pressure Tube, 6.75" long installed into the back of Enclosure
DRC-DPA3	DIN-Rail Clip

NOTE: 3 Point and 5 Point NIST Certificates are available by adding a -3P or -5P at the end of the part number.

NEW!

ADDITIONAL SELECTION AVAILABLE ON KELE.COM kele.com 877-826-9037 USA

