

➤ **1,000–1 Torr**

■ **KJLC® 902 Series**

These piezo transducers combine the pressure measurement technology of a piezo transducer with an integrated electronic control circuit.

- Our KJLC 902 is an absolute direct reading transducer, enabling the measurement to be gas independent
- Transducer includes a unique temperature compensation circuit which allows for high accuracy over a wide measurement range <1 to 1,000 Torr (<1 to 1,333 mbar)

An LED readout is available for the 902 which is controlled through the 0–10 VDC linear analog output. The readout is streamlined with the width and depth of the transducer, and adds only 1.4" to the height. The readout attaches to the transducer through the D-sub connector and has a through connector to enable the transducer to connect to the rest of the system for integration.

Additional Features:

- Low-cost transducer alternative
- Compact system design with integrated electronics and sensor in one unit
- Reduced process cycle time due to the transducer's fast, accurate, and repeatable pressure measurements
- Transducer is suitable for harsh processes due to its clean, robust design and stainless steel construction
- Ease of operation with both digital communication and user-configurable analog output in one unit

Digital: RS-485 or RS-232

Digital models also have choice of Analog: 0 to 5 or 0–10 VDC

—Linear

—Logarithmic

- Process control from set-point relay with fast response time
- CE marked

Applications:

- Load locks
- Vacuum processes
- Foreline and roughing pressure measurement
- Warning alarm
- Backfill and venting monitoring
- Vacuum system control relay

NOTE: See page 7-9 for our PDR900 controller.



902 Gauge with Display Module

SPECIFICATIONS

Method of Measurement — Piezo
Measuring Range & Accuracy — 1–1,000 Torr (1 to 1,333 mbar): ± <1% of reading
Interface/Connection — Digital RS-485 or RS-232, 9-pin Sub-D
Power Requirements — 12–30 VDC, 30mA, 0.5W max
Repeatability — ± 0.03% of F.S.
Set-Point Range — 1–1,000 Torr (1 to 1,333 mbar)
Set-Point Relay Response — 50ms (1 SPST resistive relay rated at 1A @ 30 VAC/DC)
Temperature: Operating — 0–50° C
Temperature: Bakeout — 85° C
Overpressure Limit — 2,000 Torr (2,666 mbar)
Installation Orientation — Any
Materials Exposed to Vacuum — 304 SS, 316 SS
Output Voltage — 0-10 VDC

Gauges (Transducers)

Description	Termination	Part No.	Price
902 Series Piezo Gauge			
Digital RS-485	KF16	K9021112	Call
	4 VCR® Female	K9021212	Call
	8 VCR Female	K9021312	Call
Digital RS-232	KF16	K9021113	Call
	4 VCR Female	K9021213	Call
	8 VCR Female	K9021313	Call

Gauge Controllers & Accessories

Description	Part No.	Price
KJLC PDR900 Series Controller*		
120 VAC	KPDR90012US	Call
220 VAC	KPDR90012EU	Call
Bolt-on Display Unit (Torr only)	K902001	Call
Power Supply/Cable Combo (RS232)		
120 VAC (U.S.)	K12641	Call
90-230 VAC (U.K./EU)	K12664	Call
Power Supply Only		
120 VAC (U.S.)	K14245	Call
Sub D-Type 9-Pin to 15-Pin Adapter for 902	K14245	Call
Software Package for PC Control	K12604	Call
Cable, 10', 9-Pin to connect PDR900 to 902	K13613	Call
Cable, 25', 9-Pin to connect PDR900 to 902	K13615	Call

*120 VAC version includes US Mains cable.
 220 VAC version includes both UK and EU Mains cable.