DLR3110 Digital Pressure Standard



DLR3110 - 19 inch wide rack-mountable version of DLR334 plus precision patented Orion valve assembly and vernier, test port and test hose, pressure limit control and monitor.*** Test port may be mounted on front or rear of unit

*** Pressure limit control and monitor are not required for 5000 psi models and above

STANDARD FEATURES

- Test port placement may be configured for front or rear of unit
- 115 or 230 VAC operation
- Ranges from vacuum to 10,000 psi
- · 20 selectable engineering units
- · Freeze mode for pressure switch testing
- 0.05% of reading, 0.1% of reading, or the economical 0.25% of reading model
- · Selectable resolution
- Digital outputs: RS-232, RS-422, and RS-485

- Min/Max pressure readings
- Accuracy is percent of reading from 20% of full scale
- Different technicians can operate the system and get identical results...every time
- Pneumatic only no hydraulics or distilled water messes
- Calibration Certificate included traceable to the National Institute of Standards and Technology (NIST)

APPLICATIONS

- · Test stands
- · On-site manufacturing pressure monitoring
- · Transfer standard
- · Low-cost digital data logging of readings

SPECIFICATIONS

Overall Accuracy:

0.05% of reading, 0.1% of reading, 0.25% of reading all from 20% of full scale and above. Below 20% of full scale units remain 0.05%, 0.1%, or 0.25% of 20% of full scale range. Includes all effects of linearity, hysteresis, repeatability, and ambient temperature. No temperature effect from 40°F to 140°F. NIST traceable

Temperature Range:

Operating: 40°F to 140°F (4°C to 60°C) Storage: 0°F to 185°F (-17°C to 85°C) Warm up: 3 minutes to rated accuracy, 15 minutes to complete stability

Calibration:

Full NIST traceability. Calibration points can be adjustable for operator convenience. Calibration via front panel and/or digital interface

Resolution:

Adjustable, 50,000 display counts (maximum) of range

Display Size:

Two-line, six-digit, 0.6 in. high numeric display, eight alpha characters per line, three annunciator light bars, bright red Light Emitting Diode (LED)

Pressure Hose:

Quantity supplied: One output Length: 4 ft. nominal

Display Update:

Adjustable, 100 ms maximum

Media Compatibility:

Any media compatible with 17-4PH or 15-5PH stainless steel

Overpressure:

200% of range (minimum)

Power Requirements:

115 or 230 VAC

Case Material:

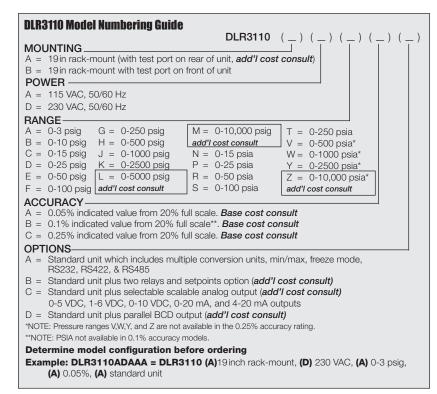
16 gauge, mild steel with textured finish, baked epoxy enamel paint

Weight:

DLR3110: 19 lb (8.6 kg)

Overall Dimensions:

19~W~x~7~H~(EIA~4U)~x~10 in. deep (482.6 W x 177.8 H (4 HE) x 254 mm) Excluding front handles





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MODEL/PRICE

MODEL CONFIGURATION	DESCRIPTION	EST. SHIP WEIGHT	PRICE
DLR3110 A(_)(_)A(_)	19 in rack-mount, test port on rear of unit, 0.05%	19 lb	Consult
DLR3110 A(_)(_)B(_)**	19 in rack-mount, test port on rear of unit, 0.1%	19 lb	Consult
DLR3110 A(_)(_)C(_)	19 in rack-mount, test port on rear of unit, 0.25%	19 lb	Consult
DLR3110 B(_)(_)A(_)	19 in rack-mount, test port on front of unit, 0.05%	19 lb	Consult
DLR3110 B(_)(_)B(_)**	19 in rack-mount, test port on front of unit, 0.1%	19 lb	Consult
DLR3110 B(_)(_)C(_)	19 in rack-mount, test port on front of unit,, 0.25%	19 lb	Consult

^{**}PSIA not available in 0.1% accuracy models.



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OPTIONS/ACCESSORIES

PRICE	DESCRIPTION	PRICE
PRICE		Phice
58478	Pressure trap (DLR3110, 5000 psi and above) Literature sheet PN 58596	Consult
58483	Pressure trap (DLR3110, 250-2500 psi) Literature sheet PN 58609	Consult
58487	Pressure trap (DLR3110, 3-100 psi) Literature sheet PN 58621	Consult
74843	Additional operating and maintenance manual for DLR3110	Consult
74844	Two relays and setpoint option supplement manual	Consult
74845	Duplex serial protocol manual	Consult
55281	Additional test port (output) 5 ft. long hose with quick-disconnect plug (brass) on one end and 1/4 in. 37° female AN swivel tube coupling on the other end. (DLR3110 3-100 psi operation)	Consult
55328	Additional test port (output) 10 ft. long hose with quick-disconnect plug (brass) on one end and 1/4 in. 37° female AN swivel tube coupling on the other end. (DLR3110 3-100 psi operation)	Consult
55336	Additional test port (output) 15 ft. long hose with quick-disconnect plug (brass) on one end and 1/4 in. 37° female AN swivel tube coupling on the other end. (DLR3110 3-100 psi operation)	Consult
55341	Additional test port (output) 20 ft. long hose with quick-disconnect plug (brass) on one end and 1/4 in. 37° female AN swivel tube coupling on the other end. (DLR3110 3-100 psi operation)	Consult
55279	Additional test port (output) 5 ft. long hose with quick-disconnect plug (SST) on one end and 1/4 in. 37° female AN swivel tube coupling on the other end (DLR3110 250-2500 psi operation)	Consult
55300	Additional test port (output) 10 ft. long hose with quick-disconnect plug (SST) on one end and 1/4 inch 37° female AN swivel tube coupling on the other end (DLR3110 250-2500 psi operation).	Consult
55304	Additional test port (output) 15 ft. long hose with quick-disconnect plug (SST) on one end and 1/4 inch 37° female AN swivel tube coupling on the other end (DLR3110 250-2500 psi operation).	Consult
55310	Additional test port (output) 20 ft. long hose with quick-disconnect plug (SST) on one end and 1/4 inch 37° female AN swivel tube coupling on the other end (DLR3110 250-2500 psi operation)	Consult
55280	Additional test port (output) 4-1/2 ft. long hose with quick-disconnect (SST) plug on one end and 1/4 in. 37° female AN swivel pressure fitting on opposite end. (DLR3110 5000 psi and above operation)	Consult
131096	Additional test port (output) 10 ft. long hose with quick-disconnect (SST) plug on one end and 1/4 in. 37° female AN swivel pressure fitting on opposite end. (DLR3110 5000 psi and above operation)	Consult

Additional options available:

Standard unit plus two relays and setpoints Standard unit plus 0-10 VDC and 4-20 mA outputs Standard unit plus parallel BCD output





