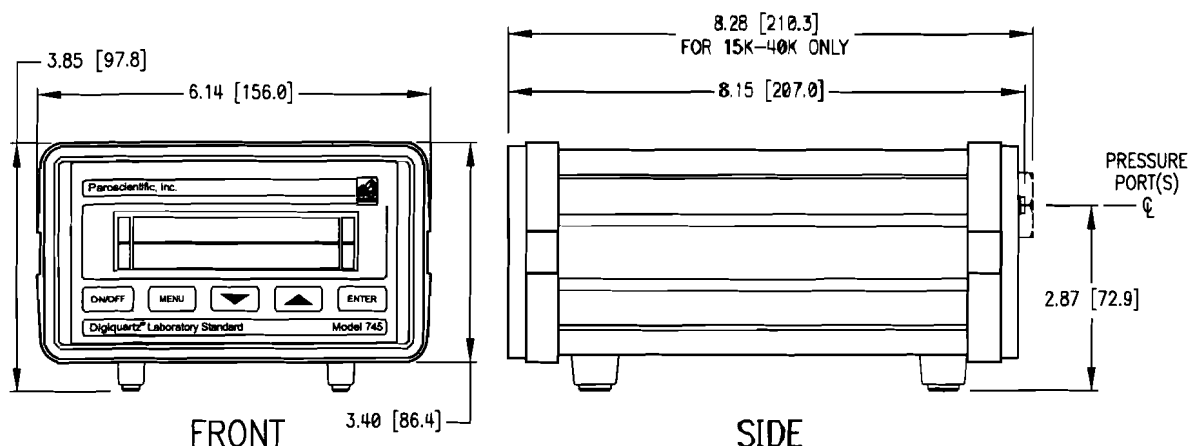


SPECIFICATION CONTROL DRAWING

STANDARD PRODUCT



MODEL 745

PERFORMANCE:

ACCURACY INCLUDING
PRESSURE HYSTERESIS,
REPEATABILITY, LINEARITY, AND
TEMPERATURE CONFORMANCE $\pm 0.008\%$ OF FULL SCALE OR BETTER
MODEL 745-16B BETTER THAN ± 0.08 hPa
MODEL 745-30K AND 745-40K $\pm 0.02\%$ FULL SCALE OR BETTER

CHARACTERISTICS:

WEIGHT 4.0 LB (1.8 KG) MAX
POWER REQUIREMENTS (EXTERNAL) +6 TO +25 VDC
TYPICAL CURRENT CONSUMPTION:
STANDARD RESOLUTION MODE 72 mA
FIR RESOLUTION MODE (FIRMWARE D1.06 AND LATER) 84 mA
IIR RESOLUTION MODE (FIRMWARE D1.06 AND LATER) 100 mA
OPERATES UP TO 20 HOURS IN STANDARD RESOLUTION MODE ON 4 AA INTERNAL ALKALINE BATTERIES.
DISPLAY IS 16 CHARACTER X 2 ROW LCD WITH .32" HIGH CHARACTERS.

ENVIRONMENTAL:

OVERPRESSURE 1.2 TIMES FULL SCALE
MODELS 745-500A 1.0 TIMES FULL SCALE
MODELS 745-30K AND 745-40K 1.1 TIMES FULL SCALE
OPERATING TEMPERATURE RANGE 0°C TO $+40^{\circ}\text{C}$ (32°F TO 104°F)
PRODUCT IS CE MARKED.

MODEL NO.	PART NO.	PRESSURE RANGE	MATING FITTING
745-15A	1728-X01	0-15 PSIA (0.10 MPa)	1/8 PARKER A-LOK OR EQUIVALENT
745-16B	1728-X10	7-16 PSIA (0.11 MPa)	
745-23A	1728-X02	0-23 PSIA (0.16 MPa)	
745-30A	1728-X03	0-30 PSIA (0.21 MPa)	
745-45A	1728-X04-0	0-45 PSIA (0.31 MPa)	HIP: GLAND 60-2HM4 COLLAR 60-2H4 NIPPLE HM4 SEE NOTE 7
745-100A	1728-X05-0	0-100 PSIA (0.69 MPa)	
745-200A	1728-X06-0	0-200 PSIA (1.38 MPa)	
745-300A	1728-X07-0	0-300 PSIA (2.07 MPa)	
745-400A	1728-X08-0	0-400 PSIA (2.76 MPa)	
745-500A	1728-X09-0	0-500 PSIA (3.45 MPa)	
745-15G	1728-X11	0-15 PSIG (0.10 MPa)	
745-22G	1728-X12	0-22 PSIG (0.15 MPa)	
745-30G	1728-X13	0-30 PSIG (0.21 MPa)	
745-100G	1728-X14-0	0-100 PSIG (0.69 MPa)	
745-150G	1728-X15-0	0-150 PSIG (1.03 MPa)	
745-200G	1728-X16-0	0-200 PSIG (1.38 MPa)	
745-1K	1728-X17-0	0-1000 PSIA (6.89 MPa)	
745-2K	1728-X18-0	0-2000 PSIA (13.8 MPa)	
745-3K	1728-X19-0	0-3000 PSIA (20.7 MPa)	
745-6K	1728-X20-0	0-6000 PSIA (41.4 MPa)	
745-10K	1728-X21-0	0-10000 PSIA (68.9 MPa)	
745-15K	1728-X22-0	0-15000 PSIA (103 MPa)	
745-20K	1728-X23-0	0-20000 PSIA (138 MPa)	
745-30K	1728-X24-0	0-30000 PSIA (207 MPa)	
745-40K	1728-X25-0	0-40000 PSIA (276 MPa)	

WITH "-0" FOR OIL-FILLED.
NOT AVAILABLE ON UNITS 30 PSI AND BELOW.

0 = 110 VAC
1 = 220 VAC

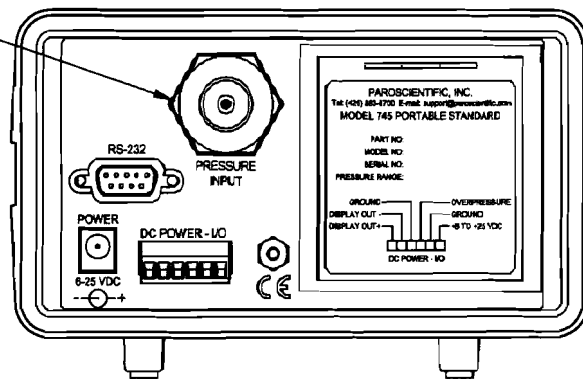
NOTES:

- MAXIMUM TORQUE ON PRESSURE FITTINGS IS 75 IN-LB (8.47 N-m) EXCEPT HIP PRESSURE FITTING WHICH IS 25 FT-LB (33.9 N-m).
- REFER TO OPERATION MANUAL 8004-001 FOR OPERATING INSTRUCTIONS. OPERATIONS MANUAL CAN BE DOWNLOADED FROM PAROSCIENTIFIC WEBSITE.
- CAUTION: HANDLE UNIT WITH CARE. EXCESSIVE SHOCK OR VIBRATION MAY CAUSE PERMANENT DAMAGE.
- ACCESSORIES INCLUDE: SERIAL INTERFACE CABLE, AC ADAPTER, LAMINATED MENU CARD, AND 4 AA BATTERIES.
- OIL-FILLED UNITS HAVE THE PRESSURE PORT OIL FILLED UNDER VACUUM WITH DOW CORNING FS-1265 FLUID. AT 25°C , SPECIFIC GRAVITY IS 1.25 AND VISCOSITY IS 300 CENTISTOKES. FOR GAUGE UNITS, ONLY THE POSITIVE PRESSURE PORT IS OIL FILLED. CAUTION: DO NOT APPLY VACUUM OR GAS TO OIL FILLED PRESSURE PORTS, OIL COULD BE WITHDRAWN PERMITTING PRESSURE MEDIUM TO COME INTO CONTACT WITH SENSING ELEMENTS.
- RS-232 PORT MEETS EIA/TIA-232 SPECIFICATIONS.
- ALSO ACCEPTS: AUTOCLAVE GLAND AGL(40), COLLAR ACL(40), AND NIPPLE CN44.

CURRENT APPROVALS				 Paroscientific, Inc. 4500 148th Avenue NE Redmond, WA 98052 Tel: 425.863.6700 Fax: 425.867.5407 website: www.paroscientific.com	DESCRIPTION DIGIQUARTZ® PORTABLE LABORATORY STANDARD, MODEL 745	SIZE A	CAGE 54535	DOCUMENT NUMBER 7831-001	REV K
NAME	DATE	NAME	DATE						
CAD ☒ R.M. Collado	3/23/15	MFG ☐ C. Delan	3/23/15	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES DIMENSIONS IN BRACKETS ARE IN MILLIMETERS DIMENSIONS ARE FOR REFERENCE ONLY					
CHK ☒ C. Delan	3/23/15	QA ☐ C. Delan	3/23/15						
ENG ☐ T. Luxon	3/23/15	MKTG ☐ K	3/23/15						
EO NO/EFFECTIVE DATE: 8109									
ACAD FILENAME: 7831-001_dwg				SCALE 1/3	SHEET 1 OF 2				

SPECIFICATION CONTROL DRAWING

HIP FITTING
PN 60-21HF4



BACK
(15K-40K PSIA)

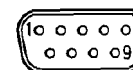
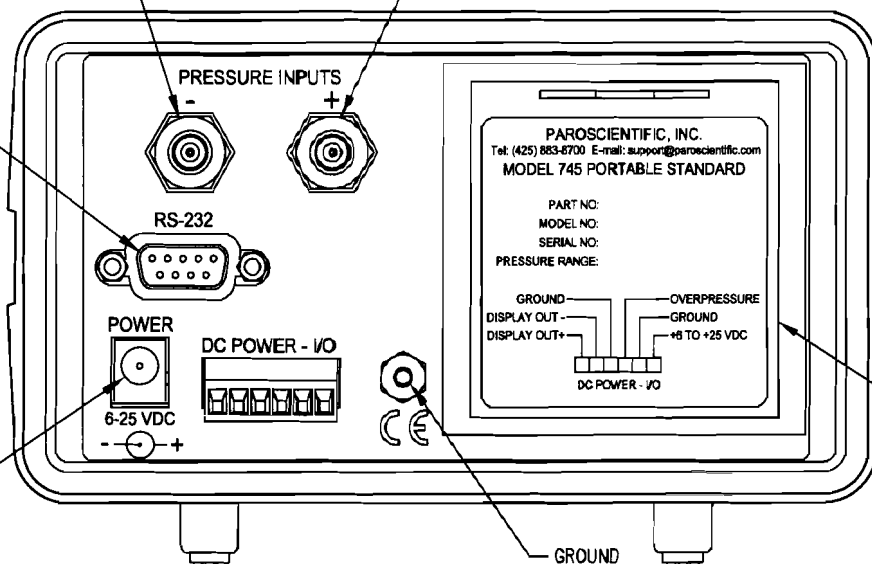


FIGURE 1

NEGATIVE PORT
VENT TO ATMOSPHERE
GAUGE UNITS ONLY

MATES WITH 1/8" PARKER
A-LOK FITTING OR EQUIVALENT
2 PLACES ON GAUGE UNITS
APPLY PRESSURE THIS SIDE ONLY

MALE DB-9M
INTERFACE
CONNECTOR
SEE FIGURE 1



COAXIAL DC
POWER JACK
5.5 MM O.D. (+)
2.1 MM I.D. (-)

BATTERY COMPARTMENT
(4X AA SIZE)

BACK

CONNECTOR PIN-OUT:

PIN	SIGNAL
1	NOT USED
2	RS-232 TX
3	RS-232 RX
4	NOT USED
5	POWER/SIGNAL GND
6	NOT USED
7	NOT USED
8	NOT USED
9	NOT USED