PIT5000 Digital Deadweight Tester

The **PIT5000** from Meriam Process Technologies is the modern tool for conducting pipeline hydrostatic tests. Replace your dead weight testers, pressure chart recorders and temperature chart recorders with the convenience of digital data collection and user friendly PC software.

Pressure, ambient temperature and pipeline temperature are measured by the system's NIST traceable instrumentation and plotted on one graph versus time. The PC's real time plots feature self adjusting x- and y-axes, color coded plot lines and zoom controls.

The PIT5000 also provides for site data entry, automatic data logging, pump stroke counter, test limits with associated visual alarms and much more.

Specifications

Range / Safe Working Pressure:	0 – 3300 PSIG / 6000 PSIG
PC Working Temperature:	41º to 95º F (5º to 35º C)
Battery Working Temperature:	41º to 95º F (5º to 35º C)
Storage temperature:	32º F and up (0º C and up)
Pressure Accuracy:	±0.05% FS for 0 – 3300 PSIG range
	No temperature effect over -4º F to +122º F (-20º to 50º C)
Temperature Accuracy	
Class A Pt100 RTD:	±1.44º F (±0.8º C) over temperature range of ±212º F (±100º C)
RIO4000 RTD module:	±0.72º F (±0.4º C) for temperatures between 64º F and 82º F (18º C and 28º C). Outside this range apply Temp. Coeff. of 0.04º F/º F (0.02 º C/º C)
Voltage output:	+5VDC to normally open, dry contacts (supplied by user for pump stroke counting)
Dimensions:	24.8"L x 19.7"W x 11.9"D
Weight:	Approximately 72 lbs (44 lbs main case plus 28 lbs gear and bag)
Regulations	The Pipeline and Hazardous Materials Safety Administration (PHMSA), part of the U.S. Department of Transportation, is the governing body which establishes pressure test regulations.
	The specific regulation is contained in DOT 49 CFR part 192.
	Part 192.619(a)(2): Pressure test.

RTD Assembly with
Military Style Connector

System PC: Operating System - Windows 7 Starter,
typical
10.1" Widescreen TFT 1024 x 600
Typical Keyboard and mouse pad with right and left click buttons
1GB RAM/160GB Hard drive
Typical Two (2) USB ports minimum
Memory card slot for SD/SDHC/MMC cards
AC power adapter

Gear Bag is included with each PIT5000. 12"D x 12"H x
24"W nylon gear bag with zippered main compartment
for storing and toting pressure hose, RTD cables, RTDs,
counter cable, AC charger, DC extension cord, etc.
Weight: 28 lbs

Power Options: 115V AC 50/60 Hz charger, includes AC wall plug (input) and
DC automotive style plug (output).

30 ft DC extension cord with DC automotive style plugs on each
end. Connect to automobile outlet to extend / finish a test or use
to connect an external battery case to the PIT5000.

External battery case for a 12V DC battery (supplied by user).
Connect the external case to the PIT5000 using the supplied 30
extension.

External Battery Case
for PIT5000

Ordering Information

Model				
PIT5000	Digital Deadweight Tester			
	Power			
	-00	Customer Supplied Battery or Line Powered		
		Hose/Cable Lengths		
		-151	150 ft RTD cables, 150 ft counter cable, 150 ft XT Quick-Test pressure hose & adapters (2)	
			Pressure Range	
Example: PIT5000-00-151-3300			-3300	0 - 3300 PSIG, ±0.05% FS

Optional Accessories

Z9P495   Spare adapter fittings to mate with customer's pressure connection; ¼" NPT(M) x quick test fitting,
316L SS, 5000 PSI SWP

Z9A805   Air purge kit. Installs between PIT5000's 1/4" NPT(F) pressure fitting and pressure hose to assist in
venting air prior to tests. Consists of: 316SS angle adapter, 1/4" NPT(M) x 1/4" tube; 316SS 1/4"
tube, 8" length; 316SS 1/4" NPT(F) x 1/4" tube adapter; 316SS 1/4" NPT(F) tee; 316SS 1/4"
NPT(M) x 1/4" NPT(M) 90 deg bleed valve.