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process technologies

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& calibration solutions.

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Pipeline Integrity Tester

The PIT5000 will pay for itself many times over by reducing time for set-up, tear-down and eliminating tedious, error prone manual data collection. In addition the real-time graphs allow you to see exactly what is happening, and focus on what is important, during the entire test process.

PIT5000

The Meriam PIT5000 is the premier instrument for conducting and documenting pipeline hydrostatic pressure tests. This device replaces your bulky and fragile dead weight pressure testers, pressure chart recorders, and temperature chart recorders with a rugged all-in-one solution.

The PIT5000 incorporates our proven, NIST-traceable pressure and temperature measurement technology with our patented* system to provide reliable, automated data collection and storage of the following:

- Pipe pressure
- Pipe and ambient temperatures
- Total pump stroke count and volume calculation

Additionally, during the test, the PIT5000 provides you with the following visual assistance:

- Real-time pressure and temperature plotting
- Real-time stroke vs. pressure plotting
- Real-time, configurable, alarm indicators

Test reports are automatically generated in two convenient formats, PDF (Read-Only) and XLSX.

*Patents: USA 8,935,106 CAN 2,756,486



PIT5000: Pipeline Integrity Tester

PIT5000

- Durable composite case with built-in wheels and collapsible handle, water resistant, hinged lid with latches (and a lock hole), with a pneumatic lift arm to prevent accidental closure
- Simplified control panel with Power, Computer, and Measure connection areas and industrial keyboard
 - Power area: two 12 V dc sockets (one locking), voltage input meter, and power switch
 - Computer area: two dedicated USB ports to connect a memory stick and/or mouse
 - Measure area: one male Ralston Quick-Test pressure connection, two M12 RTD connections, one M12 stroke counter connection
- Zippered documentation pouch to hold important paperwork
- Ruggedized computer with large color screen and industrial keyboard with touchpad
- NIST-traceable Meriam pressure and temperature measurement technology
- Meriam patented system provides reliable, automated data collection and storage, including test reports. Additionally, the software provides real-time graphs of pressure and temperature.



Gear bag

- One (1) 150 ft pressure hose with female Ralston Quick-Test pressure connections and adapter
- Two (2) 150 ft cables with mating M12 connectors
- One (1) 150 ft cable for pump stroke counter with fork terminals and mating M12 connector
- One (1) 25 ft 12 V dc cable with ring terminals and locking connector
- One (1) 115 V ac to 12 V dc power supply (charger assembly)
- Two (2) RTD Probes
- One (1) Quick-Test × 1/4" Male NPT Adapter

Working Pressure	0 psi to 3300 psi
Working Temperature	32 °F to 95 °F (0 °C to 35 °C)
Storage Temperature	32 °F to 122 °F (0 °C to 50 °C)
Pressure Accuracy*	± 1.65 psi
Temperature Accuracy*	±1.64° F (±0.91° C), including RTD probe
Voltage Output	+5 V dc to normally open, dry contacts (customers supply the dry contact for pump stroke counting)
Dimensions (Approx.)	• PIT5000: 25" x 20" x 12" • Gear Bag: 24" x 12" x 12" (flexible for all wires, cables and hoses)
Weight (Approx.)	• PIT5000: 42 lb • Gear Bag: 32 lb
Power Options	• Two 12 V dc sockets (one locking) which can be powered from the supplied 115 V ac to 12 V dc power supply/charger or a 12 V dc battery (optional or user supplied) using the supplied 25 ft locking cable. • Both 12 V dc sockets can be used simultaneously for a short time to transfer power from one source to another, to provide uninterrupted power during a hydrostatic test.

*Includes all effects of pressure, temperature and hysteresis over the specified working temperature of 32 °F to 95 °F