

# DEADWEIGHT TESTER

P: 2/4

Sr. No	Item Description	Qty Required
01	<p style="text-align: center;"><b><u>Electronic Deadweight Tester</u></b></p> <p><b>Description:</b> Electronic Deadweight Tester E-DWT-H is an electronic calibrator designed to deliver traditional hydraulic deadweight tester performance with digital measurement features.</p> <p>A. <b>Kit Model:</b> 6531-14M  <b>Make:</b> Fluke  <b>E-DWT-H Configuration:</b> E-DWT-H A14M  <b>Pressure range:</b> 1.4 to 14MPa, 200 to 2000psi</p> <p>B. <b>Kit Model:</b> 6531-7M  <b>Make:</b> Fluke  <b>E-DWT-H Configuration:</b> E-DWT-H A7M  <b>Pressure range:</b> 0.7 to 7MPa, 100 to 1000psi</p> <p>C. <b>Kit Model:</b> 6532-70M  <b>Make:</b> Fluke  <b>E-DWT-H Configuration:</b> E-DWT-H A70M/A7M  <b>Pressure range:</b> 0.7 to 70MPa, 100 to 10,000psi</p> <p><b>Function and Range:</b></p> <ul style="list-style-type: none"> <li>• Power Requirement: 100- 240Vac, 50/60Hz, 12VDC 1.2A,.</li> <li>• Pressure Range: up to 70MPa (10k psi)</li> <li>• Operating Medium: Standard oil di-ethyl-hexyl sebacate, silicone oils, propylene glycol, fully fluorinated liquids, partially fluorinated liquids, isopropyl alcohol and distilled water or mineral oil.</li> <li>• Reservoir capacity: 300cc (18 in<sup>3</sup>)</li> <li>• Variable Volume displacement: 3 cc (0.18 in<sup>3</sup>), 70 MPa (10,000 psi) maximum</li> <li>• Filling and priming pump displacement: 3.7 cc (0.23 in<sup>3</sup>)</li> <li>• TEST Pressure Connection: DH500 female, 200MPa (30K psi) maximum working pressure. Adapters included for 1/8 in , 1/4 in, 3/8 in and 1/2 in NPT, 1/8 in, 1/4 in, 3/8 in and 1/2 in BSP. M20 x 1.5. Adapter maximum working pressure is 140MPa (20k psi).</li> <li>• Pressure limits: maximum working pressure: Range of RPM 4-E-DWT monitor's Hi Q-RPT  Maximum priming pump pressure: 700kpa (100psi)</li> <li>• Maximum working pressure with Lo Q-RPT selected: range of RPM4-E-DWT monitor's Lo-Q-RPT.</li> <li>• Communication Ports: RS-232 (COM1, COM2).</li> <li>• Resolution: Default 0.01 % of active range, user adjustable to 1 ppm of Q-RPT maximum or 10 ppm of active auto range,</li> <li>• Precision: ± 0.018 % of reading or 0.0018 % of Q-RPT span.</li> <li>• Predicted Stability: one year ±0.0075 % of reading.  Two year ±0.015 % of reading</li> <li>• Measurement Uncertainty: One year ± 0.02 % of reading or 0.002 % of Q-RPT span. Two year ±0.025% of reading or 0.0025 % of Q-RPT span.</li> </ul> <p><b>Each kit Contain:</b></p> <ul style="list-style-type: none"> <li>• E-DWT-H electronic deadweight tester with power supply and operating manual.</li> <li>• Vacuum liquid dill kit</li> <li>• Test station quick –mount fitting</li> <li>• NPT adapters: 1/8 in, 1/4in, 3/8 in and 1/2 in</li> <li>• BSP adapters: 1/8 in , 1/4 in, 3/8 in and 1/2 in</li> <li>• Metric adapters: M20 x 1.5 and M14 x 1.5</li> </ul>	01 Complete Set

**Accessories:**

- Fluid sebacate oil 1 quart
- Case rugged, wheeled, reusable molded shipping case
- Battery Pack/charger 12V dc battery with charger
- Foot switch/remote
- Compass for pressure software
- Gold care plane for 05 years

02

**Deadweight Testers****A) Gas operated (pneumatic) dead weight tester****Make:** Fluke**Model:** P3032-psi**Pressure range:** 10psi to 2000psi**Standard increment:** 1psi**Accuracy:** 0.008%**Piston material :** Tungsten Carbide**Cylindrical material:** Martensitic steel**B) Oil operated hydraulic deadweight tester****Make:** Fluke**Model:** P3125-MPA**Pressure range:** 0.1 to 110MPa**Increment:** 0.01MPa**Piston material :** Tungsten Carbide**Vacuum range:** 0.02MPa (maximum), 0.001MPa (minimum)**Accuracy:** 0.008%**C) Water operated hydraulic deadweight tester****Make:** Fluke**Model:** P3224-MPa**Pressure range:** 0.1MPa to 70Mpa**Ranges:** dual**Minimum pressure increment- high range:** 0.2MPa**Minimum- pressure increment- low range:** 0.02MPa**Optional fine increment- high range:** 0.02MPa**Optional fine increment- Low range:** 0.001MPa**Piston material :** Tungsten Carbide**Each Unit includes:**

- Weight set trimmed to supplied local gravity,
- Detachable lid,
- high quality case,
- Accredited calibration certificate
- Operating fluid
- Set of O-rings
- Adapter sets for quick-release connectors
- Spare seals
- Adaptors for 1/8, 1/4, 3/8, 1/2 NPT and BSP and metric adaptors (M20 and M14)
- Operating instruction in English language

01

Complete  
Set of each  
unit

03

**Pneumatic pressure balance with gas to oil separator****Description:** Primary standard for defining the pressure scale in a pneumatic range of up to 400bar(5000psi) with a gas to oil separator**General Specification:**

- **Make:** DH budenberg/WIKA
- **Model:** CPB5000
- **Pneumatic, with Separator:** up to max. 400bar (5000psi) for external supply with integrated gas to oil separator for use with hydraulic piston with M30 x 2 connection.
- **Pressure transmission medium:** clean, dry, non-corrosive gasses (e.g. air or nitrogen)

01

Complete  
Set

- **Connection:** i) Connection for piston –cylinder system = M30 x 2 thread / Con Tect quick release connector ii) Test item connection = Quick connector G ½ B female thread as standard, freely rotating , changeable, for further threaded insert, iii) 6mm SWAGELOK threaded pipe connection; max. 110% of the assigned measuring range.

**Option:**

- System with increased accuracy to 0.008%
- Piston connection with Con Tect quick-release connector
- storage case for piston-cylinder system
- mass set manufactured to local gravity
- DKD/DAK KS calibration certificate

**Scope of Supply:**

- Base with dust protection cover
- Priming pump
- Spindle pump for filling, pressure generation and fine pressure adjustment.
- Piston connection with M30 x 2female thread.
- Quick connector for test item
- Piston-cylinder system with mass carrier
- Basic mass set in carrying case.
- Extention mass set in carrying case
- Masse manufactured to local gravity.
- VG22 mineral oil , 0.25 liter
- Dirt trap
- Adapter sets for quick-release connectors
- Set of O-rings
- Sealing set for base CPB5000
- Operating instruction in English language
- Factory calibration certificate

04

**Limit of Supply:**

Must be supplied with standard accessories, Essential spares may be ensured.

05

**Manuals:**

Operation, maintenance Manuals and electrical circuit drawings in English Language

06

**Calibration Certificate**

All relevant certificates must be supplied

07

**05 Years Essential Spares**

All relevant operational 5 years essential standards/spares may be quoted.