The new MultiHandy 2025 replaces the now obsolete MultiHandy 2020, which after eight years of being the industry standard entry level two channel hydraulic datalogger, has now been radically upgraded with more features, memory & measuring flexibility.

- Two channels, for selectable mA, Voltage or frequency sensor inputs
- 3rd channel for differential or power with Min & Max readings, all on one backlit LCD screen
- Rate, frequency & counting options
- Fast USB upload to HYDROcom6 software
- Rugged plastic housing & carry strap

Discover more at hydrotechnik.co.uk
DIGITAL TEST & DATALOGGING EQUIPMENT

**MultiHandy 2025**

**Ease of Use**
Still as user friendly as ever, just plug in the sensors - switch on - measure. No programming necessary when using Hydrotechnik ISDS (Intelligent Sensor Detection System) sensors.

**Flexibility**
Two inputs, many opportunities. Hydrotechnik supplies a wide range of accurate and robust ISDS sensors such as pressure (p), temperature (T), combined pressure/temperature (pT), axial turbine and gear flow meters (Q), RPM sensors (n) & much much more. Start with a base kit and build up your sensors to meet your exact needs, both now and in the future. Standard industrial sensors are also compatible with the MultiHandy 2025 via the two configurable input channels. Truly universal.

**Performance**
Connect – display – record – upload – analyse. The MultiHandy 2025 is intuitive, fast, reliable, robust and importantly accurate at ±0.2% of the full scale reading. Record up to five series of data sets with up to 120,000 values per set. Sampling rates are user selectable from 1ms to 10 seconds, providing performance beyond it’s size.

**Display and Record**
A 3rd virtual channel can display difference between measured values. Measure pressure & flow rate then fluid power (P) in kW can be displayed. Min & max values can be also displayed for all channels. Selectable scanning rates enable recording times up to 330 hours.

**Recording & Analysis Software**
Hydrotechnik have been the innovators behind fluid/gas digital test and datalogging equipment and software for many years. The MultiHandy 2025 is supplied with the new HYDROlink 6 online PC recording & evaluation software aswell as the industry leading HYDROcom 6 analysis software. Gain more understanding from your measurements with our analysis software that becomes an essential tool for archiving, performance monitoring & quality control.

**Back-up and Support**
Just as important as great products and service, Hydrotechnik also prides itself on providing quick and effective support to their wide range of global customers. With expert to answer questions quickly, with a huge range of accessories and spares in stock, along with a full UKAS traceable in-house calibration service, Hydrotechnik are the perfect partner.

All Hydrotechnik instruments support ISDS functionality. ISDS is the automatic transmission of parameters and calibration data from Hydrotechnik sensors (with ISDS signal output) to the measuring instrument.

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**Supported Units**
- psi
- Hz
- Nm
- gpm
- Δp
- mm
- V
- rpm
- kPa
- kN
- mbar
- ccm
- °C
- bar
- l/min
- mV
- °F
- mm/s

Discover more at hydrotechnik.co.uk
MULTIHANDY 2025 INSTRUMENT & KITS

INSTRUMENT ONLY - PART NUMBER 3160-00-78.00

- MultiHandy 2025 instrument & 2 x AA rechargeable batteries
- Universal mains USB charger & USB cable
- Removable shoulder strap
- Printed Quick Start Manual
- CD ROM with HYDROlink 6 & HYDROcom 6 software and full user manual
- Sturdy plastic carry case with custom foam lining

TWIN PRESSURE KIT - PART NUMBER 2025p/p-XX*-XX*

- MultiHandy 2025 Instrument Kit as above
- 2 x selectable PR100 ISDS pressure sensors (see below for ranges & ordering codes) with 2.5m integral measuring cable.
- Two off Minimess 1620 female test point to sensor adaptors

<table>
<thead>
<tr>
<th>Pressure Range</th>
<th>* Replace XX with</th>
</tr>
</thead>
<tbody>
<tr>
<td>0...600 bar (0...8700 psi)</td>
<td>18</td>
</tr>
<tr>
<td>0...400 bar (0...5900 psi)</td>
<td>15</td>
</tr>
<tr>
<td>0...200 bar (0...2900 psi)</td>
<td>10</td>
</tr>
<tr>
<td>0...60 bar (0...870 psi)</td>
<td>21</td>
</tr>
<tr>
<td>-1...+6 bar (-14...+87 psi)</td>
<td>32</td>
</tr>
</tbody>
</table>

PR100 ISDS sensors supplied with calibration certificate traceable to national standards

PRESSURE AND FLOW KIT - PART NUMBER 2025p/p-Q-XX*-YY*

- MultiHandy 2025 Instrument Kit as above
- 1 x selectable PR100 ISDS pressure sensor (see above for ranges & ordering codes) with 2.5m integral measuring cable.
- 1 x QT100 ISDS flow turbine sensor (see below for ranges & ordering codes). Includes 2.5m long measuring cable.

<table>
<thead>
<tr>
<th>Flow Range</th>
<th>* Replace YY with</th>
</tr>
</thead>
<tbody>
<tr>
<td>2...75 l/min</td>
<td>70</td>
</tr>
<tr>
<td>9...300 l/min</td>
<td>71</td>
</tr>
<tr>
<td>16...600 l/min</td>
<td>72</td>
</tr>
</tbody>
</table>

QT100 ISDS sensors supplied with calibration certificate traceable to national standards

Other sensors available from Hydrotechnik UK:

Discover more at hydrotechnik.co.uk
## TECHNICAL SPECIFICATIONS

### INPUTS

<table>
<thead>
<tr>
<th>Channel inputs</th>
<th>Selectable analogue or frequency, ISDS or standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Inputs</td>
<td>0/4...20mA, 0/2...10V, frequency PnP (rate or count).</td>
</tr>
<tr>
<td>Accuracy</td>
<td>Analogue ±0.2% full scale. Frequency ±0.1% of actual reading</td>
</tr>
<tr>
<td>Calculated channels</td>
<td>One channel for differential pressure or hydraulic power dependent on sensors connected, Min &amp; Max</td>
</tr>
</tbody>
</table>

### INPUT PINOUTS - BOTH CHANNELS

<table>
<thead>
<tr>
<th>M16 6 pin female socket numbered pins</th>
<th>Designation</th>
<th>Pin</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIGN_I/SIGN_F</td>
<td>1</td>
<td>Analogue signal input 0/4...20 mA and frequency signal</td>
<td></td>
</tr>
<tr>
<td>GND</td>
<td>2</td>
<td>Ground</td>
<td></td>
</tr>
<tr>
<td>+Ve</td>
<td>3</td>
<td>Sensor power supply</td>
<td></td>
</tr>
<tr>
<td>SIGN_U/SIGN_DIR</td>
<td>4</td>
<td>Analogue signal input 0/2...10V / signal detection direction</td>
<td></td>
</tr>
<tr>
<td>Shield</td>
<td>5</td>
<td>Screen/Shield</td>
<td></td>
</tr>
<tr>
<td>ISDS</td>
<td>6</td>
<td>ISDS detection</td>
<td></td>
</tr>
</tbody>
</table>

### DATALOGGING

| Max no. of tests | 5 |
| Values per test  | up to 120,000 readings per test file |
| Sampling rate    | 1 kHz (one sample every 1ms) 12 bit A/D Convertor |
| Memory capacity  | 2 Megabytes |
| Scanning rates   | Selectable in five steps: 1ms, 10ms, 100ms, 1s and 10s. Recording times from 1min to 330hrs |

### INSTRUMENT

<table>
<thead>
<tr>
<th>Display</th>
<th>2.5” LCD with backlight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC interface</td>
<td>USB 2.0 UART (Virtual COM interface)</td>
</tr>
<tr>
<td>Power supply unit</td>
<td>110/240V 50/60Hz Universal mains/USB power adaptor (5V and 500mA output)</td>
</tr>
<tr>
<td>Battery performance</td>
<td>Ten hours continuous use with two sensors connected. (12 hours to recharge from fully discharged)</td>
</tr>
<tr>
<td>Sensor power supply</td>
<td>Nominal 13.8VDC 60mA</td>
</tr>
<tr>
<td>Casing/Dimension</td>
<td>ABS plastic (L 201mm x W 90mm x H 52.5mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>330g</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>-10 to +60°C @ 0 to 80% relative humidity</td>
</tr>
<tr>
<td>Storage Temp</td>
<td>-20 to +70°C</td>
</tr>
</tbody>
</table>

Notes. mA input 190Ω /1nF input impedance. Voltage input 42.1Ω / 1nF input impedance. Frequency input 100kΩ / 1nF input impedance

Discover more at hydrotechnik.co.uk
THE HYDROTECHNIK HANDHELD DATALOGGING FAMILY

From our entry level 2025 two channel datalogger - all the way up to our powerful eight channel MultiSytem 5060 plus, no matter the application we have a datalogger to suit your requirements and budget.

MULTIHANDY 3020
Robust 3 (+2) channel data logger, for detailed hydraulic diagnosis
- 3 channel instrument with 5 line backlit display
- 2 analogue & 1 frequency channel (ISDS or std.)
- 2 virtual calculation channels (delta p, power etc.)
- Min & Max readings
- 1,000,000 readings memory
- Space for 14 test files
- Record from selectable triggered events
- Supplied with HYDROcom 6 Full software

MULTISYSTEM 4010
Professional 5 (+5) channel data logger, perfect choice for detailed field service hydraulic diagnosis
- 5 channel instrument with bright colour display
- Graph or text display of measurements
- 3 or 4 analogue & 1 or 2 frequency channels (ISDS)
- 5 virtual channels (delta p, power etc & optional CAN)
- Digital I/O for external switching or instrument linking
- Min & Max readings
- Record from selectable triggered events
- 2Gb internal SD card memory
- Space for 100 test files
- Supplied with HYDROcom 6 Advanced software

MULTISYSTEM 5060PLUS
The mobile R&D, service tool, all round instrument of choice for industry professionals
- 24 channel instrument with bright colour display
- Graph or Text display of measurements
- 6 analogue & 2 frequency channels (ISDS or std.)
- Reads most industry sensor outputs for true flexibility
- 14 virtual channels (CANbus signals & calculations)
- Digital I/O for external switching or instrument linking
- Min & Max readings
- Record from selectable triggered events
- 2 Gb internal SD card memory
- USB stick upload or download of tests & settings
- Space for 200 test files
- Supplied with HYDROcom 6 Advanced software

Discover more at hydrotechnik.co.uk
INDUSTRIAL TEST & MEASUREMENT SOLUTIONS

Hydrotechnik UK Ltd is one of the UK’s leading test and measurement equipment distributors and manufacturers, servicing a wide range of industries since 1990.

In addition to pressure sensors and instrumentation, Hydrotechnik has a large product portfolio featuring Minimess® test points & adaptors, high pressure microbore hose assemblies and Minimess® test kits for analogue testing, charging, bleeding or sampling of almost any fluid or gas.

We have extensive experience in the design, development, manufacture and commissioning of fluid power test rigs for end of production sign off or component testing. Our test rigs are used in demanding and ‘mission critical’ applications including defence, manufacturing quality control, plant maintenance and research and development. Users of Hydrotechnik test rigs rigorously test pumps, hydraulic hoses, moulded coolant hoses, pipes, manifolds, tanks, accumulators, valves and many other components to ensure they are fit for purpose.

Call us on 0800 068 4134 for more information and to obtain our other brochures: