HYDROTECHNIK UK LIMITED

Digital Test & Datalogging Equipment

MultiHandy 2025

- 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

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.

R & D

Mobile hydraulics

End of Line Testing

Plant maintenance

Industrial hydraulics

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.

ISDS
Intelligent Sensor Detection System

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.

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

DIGITAL TEST & DATALOGGING EQUIPMENT

MultiHandy 2025

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 *

** Optional extra with instrument only option*

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

- MultiHandy 2025 Instrument Kit as above
- 2 x PR130 standard or PR509 ISDS pressure sensors with 2.5m measuring cable (see below for ordering codes).
- Two off Minimess 1620 female test point to sensor adaptors

Pressure Range	*Replace XX with
0...600 bar (0...8700 psi)	**18**
0...400 bar (0...5800 psi)	**15**
0...250 bar (0...3625 psi)	**17****
0...60 bar (0...870 psi)	**21**
-1...+6 bar (-14...+87 psi)	**32****

Add -NI to end of kit order code for PR130 standard (non ISDS) pressure sensors

*PR130 or PR509 sensors supplied with calibration certificate traceable to UKAS standards **on request***

*** PR130 standard (non ISDS) sensors supplied - PR100 ISDS available on request (with certifcate)*

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

- MultiHandy 2025 Instrument Kit as above
- 1 x PR130 standard or PR509 ISDS pressure sensor with 2.5m measuring cable (see above for ordering codes).
- 1 x QT500 ISDS flow turbine sensor (see below for ranges & ordering codes). Includes 2.5m long measurung cable.

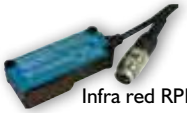
Flow Range	*Replace YY with
2...75 l/min	**70**
9...300 l/min	**71**
16...600 l/min	**72**

QT500 ISDS sensors supplied with calibration certi icate traceable to national standards

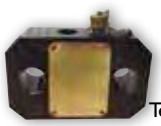
Other sensors available from Hydrotechnik UK:

Pressure

Temperature


Infra red RPM

Torque


Tension

Triaxial g force

Turbine flow

Gear flow

Inductive RPM

Displacement

Oil cleanliness

Load

DIGITAL TEST & DATALOGGING EQUIPMENT

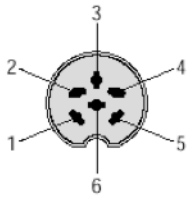
MultiHandy 2025

TECHNICAL SPECIFICATIONS

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

INPUT PINOUTS - BOTH CHANNELS

M16 6 pin female socket numbered pins



Designation	Pin	Function
SIGN_I/SIGN_F	1	Analogue signal input 0/4...20 mA and frequency signal
GND	2	Ground
+Ve	3	Sensor power supply
SIGN_U/SIGN_DIR	4	Analogue signal input 0/2...10V / signal detection direction
Shield	5	Screen/shield
ISDS	6	ISDS detection

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

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	
Display	2.5" LCD with backlight
PC interface	USB 2.0 UART (Virtual COM interface)
Power supply unit	110/240V 50/60Hz Universal mains/USB power adaptor (5V and 500mA output)
Battery performance	Ten hours continuous use with two sensors connected. (12 hours to recharge from fully discharged)
Sensor power supply	Nominal 13.8VDC 60mA
Casing/Dimension	ABS plastic (L 201mm x W 90mm x H 52.5mm)
Weight	330g
Protection levels	IP 40. Vibration to IEC 60068-2-64: 1994. Shock to IEC 60068-2-27: 1996-03.
Operating Temp.	-10 to +60°C @ 0 to 80% relative humidity
Storage Temp	-20 to +70°C

DIGITAL TEST & DATALOGGING EQUIPMENT

MultiHandy 2025

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 5070

The mobile R&D, service tool, all round instrument of choice for industry professionals

- 42 channel instrument with bright colour display
- Graph or Text display of measurements
- 8 analogue (2 selectable as frequency) channels
- Reads most industry sensor outputs for true flexibility
- 32 virtual channels (CANbus signals & calculations)
- Digital I/O for external switching or instrument linking
- Min & Max readings
- Record from selectable triggered events
- 4 Gb internal SD card memory
- USB stick upload or download of tests & settings
- Space for 500 test files
- Supplied with HYDROcom 6 Advanced software

HYDROTECHNIK UK LIMITED

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:

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