



The UK's leading  
supplier of hydraulic  
test equipment





# PRODUCT RANGE OVERVIEW

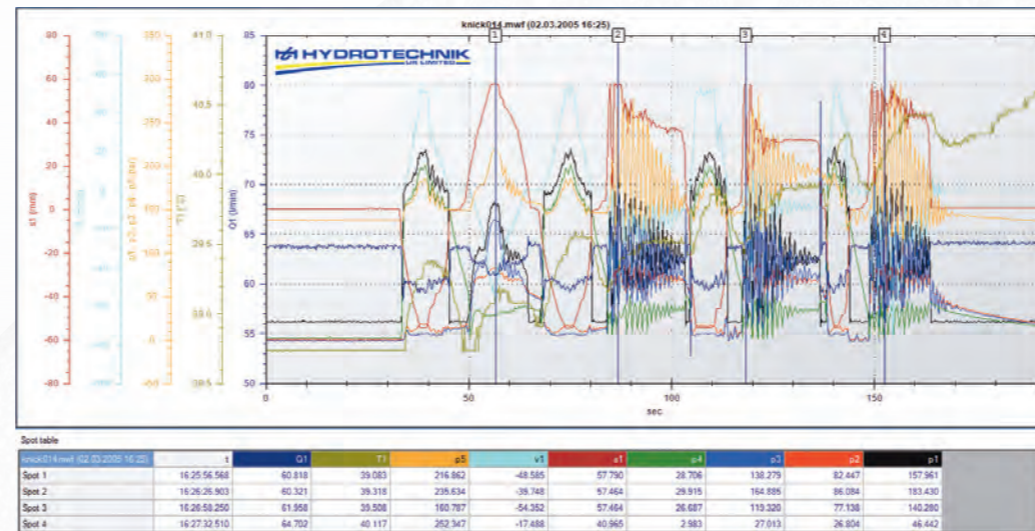
Powerful hydraulic test and data acquisition products from 2 to 40 channels

## MEASUREMENT SENSORS

A full range of high quality accurate test and measurement sensors



## HYDROCOM 6 ANALYSIS SOFTWARE



Powerful analysis software supplied with our instruments or free to download: Gain a deep understanding of your test data with massive analysis & annotation features, easy Windows explorer style file handling and multi format file sharing options. Comes in Basic, Full or Professional versions.

## MEASURING INSTRUMENTS

Powerful instruments for field service use as well as R&D and test rig applications. Models to suit all budgets



## MultiXtend

Modules to extend the measurement parameters and channels on your MultiHandy or MultiSystem instrument



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: Connect – Switch on – Measure. Accuracy is increased as linearisation data is automatically transferred to the test units and eliminates manual programming error.



**MULTIHANDY 2020**

2 (+1) channel test and data logging kit, setting new standards in performance & cost

- 2 channel plug & play measuring kit
- 1 virtual channel for delta p
- All values on one backlit screen incl. Min & Max
- ISDS Auto recognition sensors up to 600 bar
- 60,000 readings memory for 1 recording
- Selectable scanning rates up to 1 millisecond
- Supplied with HYDROcom 6 Basic software
- Flow & Temperature sensors also available
- No set up or training required



**MULTIHANDY 3020**

Robust 3 (+2) channel data logger, entry level unit 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



**MULTIBOX 3060 / 3061 / 3065**

User friendly 4 (+2) channel Black Box datalogger

- 4 channel "blind" instrument
- Operated via HYDROwork PC display software
- 3 or 4 analogue & 1 frequency channel (ISDS or std.)
- 2 virtual calculation channels (delta p, power etc.)
- Min & Max readings
- All sensors & instrument powered by USB (3060)
- Record from selectable triggered events
- Save tests direct to PC
- Set up for remote cyclic datalogging (3061/3065)
- Ethernet option for networking instruments (3065)
- Supplied with HYDROcom 6 Basic 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 or std.)
- 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 Full software



**MULTISYSTEM 5060plus**

<p><b>OPEN SYSTEM ARCHITECTURE</b></p>	<p><b>FULL CAN BUS FUNCTIONALITY</b></p>	<p><b>INDEPENDENT DATA LOGGER</b></p>	<p><b>14 SPECIAL CHANNELS</b></p>
<p><b>COLOUR DISPLAY WITH GRAPHICAL ABILITIES</b></p>	<p><b>NETWORKABILITY</b></p>	<p><b>USB STICK FOR DATA EXCHANGE</b></p>	<p><b>UNIQUE HARDWARE FILTER</b></p>

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
- 2Gb internal SD card memory
- USB stick upload or download of tests & settings
- Space for 200 test files
- Supplied with HYDROcom 6 Full software



**MULTISYSTEM / MULTICONTROL 8050**

The stand alone solution for complex measurement & control



- 40 channel instrument with touch screen display
- Available in "blind" version for operation via PC
- Graph or Text colour display of measurements
- 10 analogue & 4 frequency channels (ISDS or std.)
- 2 high speed channels for 0.1ms scan rate
- 2 inputs for voltage & current
- Analogue & Digital signal outputs for process control
- 14 virtual channels (CANbus signals & calculations)
- Digital I/O for external switching or instrument linking
- Min & Max readings
- Record from selectable triggered events
- Large internal memory
- Space for 200 test files
- Supplied with HYDROcom 6 Full software



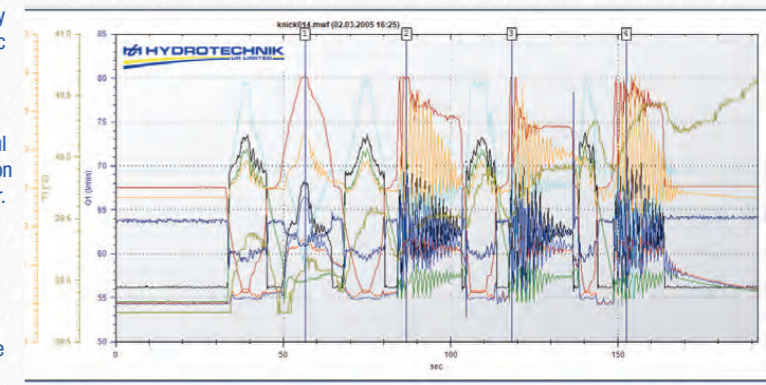
HYDROlink control software for remote viewing, setup, testing & recording. View up to 24 channels on one screen. For use with 5060 & 8050 instruments

**HYDROcom 6 ANALYSIS SOFTWARE**

Hydrotechnik has spent many years perfecting the hydraulic analysis software supplied with all instruments.

HYDROcom 6 allows powerful analysis of results captured on any Hydrotechnik data logger.

Get started quickly with simple drag & drop of tests in to the viewer window from the integrated user friendly Windows Explorer file management system



HYDROcom 6 is as simple or as complex as required, giving you fast work flow with stylish & informative presentation possibilities.

- Windows explorer file management with simple drag & drop display of test results
- Graphical, numerical, tabular & huge annotation options for stylish test presentations
- On line recording mode for real time display and logging of tests to your PC
- Zoom, Overlay, Spot, Smooth, Differential, add calculations and so much more!



## MultiXtend

Modules to extend the measurement parameters and channels on your Multi-Handy or MultiSystem instrument



- MultiXtendUI - Record Voltage or Current to any analogue channel



- MultiXtendTrigger - Connects up to 4 MultiSystems in series



- MultiXtendMultimeter - Record Multimeter signals on your MultiSystem

- MultiXtend A & f - Adds up to 4 extra analogue or frequency channels

- MultiXtendThermo - Measures up to 4 Type J, K or PT100 signals

## PRESSURE SENSORS



- Options from -1 up to 4000 bar with measuring accuracy of  $\pm 0.25\%$  FSD (ISDS)
- Robust high quality stainless steel construction with long life repeatability
- Scanning rates up to 0.1ms (10kHz)
- ISDS versions supplied with calibration certificates as standard

## FLOW TURBINES



- Robust flow turbine meters with measuring ranges up to 600l/min (higher on request)
- High pressure body with flow straighteners and pressure & temperature test points
- Available in analogue or frequency signal output with or without ISDS
- Accuracy up to  $\pm 0.5\%$  & supplied with calibration certificates as standard

## TEMPERATURE SENSORS



- High quality stainless steel sensors for accurate fluid temperature measurements
- Hand tightens on to special Minimes 1620 temperature test point
- Analogue output with or without ISDS
- Also available in hand held surface or immersion versions also with or without ISDS

## RPM SENSORS



- Infra red RPM sensors for shaft speed measurement via reflective foils to 10,000rpm
- Available with analogue or frequency outputs
- Magnetic Inductive pickups for gear wheel measurement
- Available with frequency output

## GEAR FLOW METERS



- Measuring ranges from 0.005 up to 300l/min (higher on request)
- Standard pressures up to 630 bar, fitted with pressure & temperature test points
- Available in analogue or frequency signal output with or without ISDS
- All versions supplied with calibration certificates as standard

## OIL PARTICLE COUNTERS



- "Patrick" the Particle Counter measures oil cleanliness in ISO or SAE standards.
- Provides CAN & analogue output measurement signals
- Record measurements on your MultiSystem 5060 or HYDROcom 6 in real time
- Stylish design with backlit LED screen & rotatable display.

## DISPLACEMENT SENSORS



- Compact & robust dynamic string pot requiring no linear guidance
- Standard measuring ranges up to 3000mm (higher on request)
- Available with analogue output signals
- Versions available with self programmeable 4-20mA output.

## TORQUE SENSORS



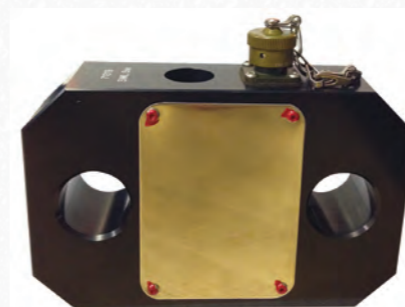
- Robust rotating torque measurement transducers
- Bi-directional torque measurement to 500Nm up to 5000rpm
- Analogue 0.5 to 4.5Vdc output for use with MultiSystem 5060plus
- Class 1 accuracy & supplied with calibration certificate

## VIBRATION SENSORS



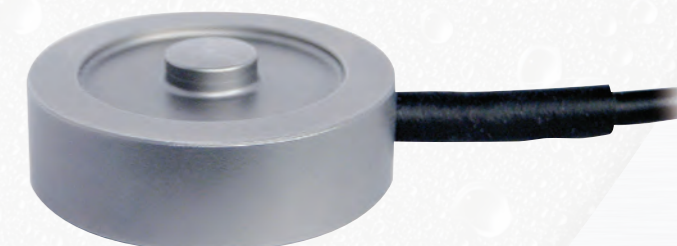
- Triaxial vibration sensors with Aluminium mounting block
- Measuring ranges from  $\pm 2g$  to  $\pm 200g$
- Analogue 0.5 to 4.5Vdc output for use with MultiSystem 5060
- Miniature size & IP66 protection

## TENSION SENSORS



- In line Aluminium load link tension cell transducer for use with standard shackle
- Measuring ranges from 1 to 500 tonnes
- Available with integrated analogue output signal amplifier & calibration certificate
- Low weight & IP66 protection

## LOAD SENSORS



- Low Profile IP67 robust button load cell transducers
- Measuring ranges from 50 to 50000kgf
- Available with integrated analogue output signal amplifier & calibration certificate
- Special mounting versions available on request to suit your application



## WE ALSO OFFER...



**MINIMESS® TEST POINTS**



**PRESSURE GAUGES**



**MINIMESS® PRESSURE TEST KITS**



**BESPOKE TEST RIGS**



**CALIBRATION & REPAIR**



**MICROBORE HOSES**

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