Data Loggers, Sensors & Instrumentation

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MultiHandy & MultiSystem
Measuring Instruments
From 2 to 40 channels

More measuring choices ...than ever before

MultiHandy & MultiSystem Instruments

- Add Voltage & Current measurement
- Add extra 4-20mA channels
- Add extra frequency channels
- Add Type J, K & PT100 Thermocouple sensors
- Bluetooth wireless transmission to PC
- LAN network connection

MultiXtend
Adaptor boxes to extend functionality of MultiHandy & MultiSystem Instruments

MultiXtend modules extend the measurement parameters and channels for our MultiHandy or MultiSystem instruments. For seamless data transmission choose our MultiXtend Bluetooth module.

KEY FEATURES
- Add Voltage & Current measurement
- Add extra 4-20mA channels
- Add extra frequency channels
- Add Type J, K & PT100 Thermocouple sensors
- Bluetooth wireless transmission to PC
- LAN network connection

Evaluation and control software
- HYDROcom6 evaluation software
- HYDROLINK6 control & recording software
- HYDROcenter firmware update software

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More sophisticated and more powerful...

MultiHandy 2025
3 channel instrument with text backlit display
2 x selectable ISDS, mA, V or pulse inputs
1 x differential or Power calculation channel
Min & Max values
Memory for five tests with up to 120,000 values per test
Storage for 5 different test files
Sunlit viewable backlit LCD screen
Compatible with any third party sensors
Supplied with HYDROlink6 Basic analysis & record software for PC

MultiHandy 3020
4 channel instrument with text backlit display
2 analogue & 1 frequency channel (ISDS or Std.)
5 virtual calculation channels (delta p, power etc.)
Min & Max values
Storage for 14 different test files
Memory for 1,000,000 (analogue), 330,000 (frequency) measurements per series
Fast transmission via USB
Record from selectable triggered events
Sunlit viewable backlit LCD screen
Supplied with HYDROcom6 Advanced software

MultiSystem 4010
10 channel instrument with bright colour display
Graph or text display of measurements
1 x 7 analogue & 1 or 2 frequency channels (ISDS or Std.)
5 virtual channels (delta, power etc & optional CANbus inputs)
Digital I/O for external switching or instrument linking
Min & Max readings
Storage for 100 different test files
1,000,000 values per series
Supplied with HYDROcom6 Advanced software

MultiSystem 5060plus
24 Channel instrument with bright colour display
Graph or text display of measurements
4 analogue, 2 x 0.1 ms high speed & 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
2,000,000 measurements per test
Supplied with HYDROcom6 Professional software

MultiControl & MultiSystem 8050
40 channel instrument with touch screen display or available in “blind” version for operation via PC
Graph or text display of measurements
10 analogue & 2 ± 0.1 ms high speed analogue, 4 frequency channels (ISDS or Standard)
6,000,000 measurements per test
2 inputs for voltage & current
Analogue & Digital signal outputs for process control
6 or optional 14 virtual channels (CANbus signals, calculation & user defined formulae)
Min & Max readings
Record from selectable triggered events
Large internal memory
Space for 200 test files
Supplied with HYDROcom6 Professional software
Supplied with HYDROlink6 Advanced software (MultiControl 8050)
Digital I/O for external switching or instrument linking

Universal connectivity as standard:-
0 or 4...20mA • 0...10V • ±10V • 1...5V • 2...10V • 0.5...4.5V • Frequency rate & totalising • CANopen • J1939 • Digital I/O • Free formulae • RS232 • USB • Bluetooth • Ethernet

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MultiHandy 2025
MultiHandy 3020
MultiSystem 4010
MultiSystem 5060plus
MultiControl & MultiSystem 8050

Call us now: 0115 900 3550

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Pressure Sensors
Options from -1 up to 4000 bar with measuring accuracy of ±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

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

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 programmable 4-20mA output

Vibration & Accelerometer Sensors
Triaxial vibration sensors for measuring g forces
Measuring ranges from ±2g to ±200g
Magnetic base vibration sensor for measuring frequency of vibrations
Miniature size & IP66 protection

Load, Torque, Compression & Tension Sensors
Robust rotating torque measurement transducers from 2.5...500 Nm
Load link tension & compression cell transducers from 1 to 500 tonnes
Low Profile IP67 robust button load cell transducers 0.5...20 tonnes
Standard signal outputs for simple connection to Hydrotechnik instruments

Oil Contamination Particle Counting Sensors
Stylish Particle Monitor with ISO or SAE cleanliness code output
Internal memory up to 3000 readings
Easy connection to MultiSystem S060plus for real time cleanliness measurement in isolation or with other sensors at one time.
Connect to HYDROcom6 software for PC monitoring & recording

Circular Gear & Turbine Flow Meters
Robust turbine meters with measuring ranges from 1...600l/min. 420 bar max.
High accuracy gear meters from 0.005...300l/min. 630 bar max.
Available in analogue or frequency signal output with or without ISDS
Accuracy up to ±0.4% & supplied with calibration certificates
Pressure & Temperature test points fitted as standard

MultiXtend UI for measurement of Voltage (up to ±60v) or Current (up to ±4A) with PWM, for use with any Hydrotechnik instrument
MultiXtend f - for additional one or four frequency channels to your Hydrotechnik measuring instruments
MultiXtend A - for additional four 0-20mA or 4-20mA channels for your 5060plus or 8050 instruments
MultiXtend Thermo - for additional one or four extra thermocouple K, J or PT100 inputs to your Hydrotechnik measuring instruments
Connect unlimited numbers of MultiXtend CAN modules in series.
MultiXtend Trigger for connection of up to four 4010 or 5060plus instruments allowing for synchronous recording of all instruments as one unit
MultiXtend Bluetooth for wireless transmission of all measured channels on your 5060plus to a laptop running HYDROcom6. Transmission is almost instantaneous and distances are possible up to 200m apart
Windows Evaluation & Control Software

HYDROcom6 & HYDROlink 6 is the powerful analysis software provided with all Hydrotechnik datalogging instruments. A user friendly environment-making test evaluation, online recording & presentation of data simpler and more powerful than ever before.

**HYDROcom 6**
- Transfer, import and export data
- Evaluate, analyse and process test data
- Transform data into graphs, tables & histograms
- Create test reports, test protocols or quality control reports

HYDROcom6 is available in basic, advanced or professional versions and is free with all Hydrotechnik measuring instruments

**HYDROlink 6**
- Allows for recording of tests via your PC with flexible display presentation options of required channels
- Allows for analysis of saved Hydrotechnik test files even in Basic version
- User friendly single button operation or drag & drop functionality, perfect for test bays or end of line production
- Advanced version allows for 2 way control of connected 5060plus or 8050 up to 248 channels

**HYDROcenter**
Hydrotechnik instruments and software stay up to date with latest versions available notified for upgrade when connected to the net. The user is actively notified of the newest software and firmware updates.

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