



## Product Overview



**See our range of hydraulic components  
and test equipment**



**Hydraulic measurement and control**



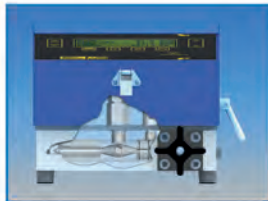
## Our vision

We believe in being better than we are today, striving to constantly improve, and inspiring others to enjoy the challenges that engineering brings. We do this by focusing tirelessly on you, our customer, and your requirements when considering the products that we design, manufacture, supply, service and support.



## Quality - ISO 9001:2015

We are an accredited ISO 9001 company and are committed to a programme of "Total Quality"



## Research and development

We are committed to developing new high-tech and innovative products to meet our customers' hydraulic testing needs



## Manufacturing

We manufacture our products using precision CNC machine tools to ensure unparalleled accuracy and quality



## Test and calibration

We have in-house test benches traceable to international standards for the calibration of flow, pressure and temperature sensors

# Flow Condition Monitoring

## Analogue and digital flow indicators

**Accuracy:** See below  
**Pressure:** Up to 420 bar  
**Ports:** BSP / NPT  
**Applications:**  
 Hydraulic condition monitoring and test stands

**Flow:** Up to 550 lpm  
**Type:** Unidirectional/  
 Reversible

### FlowHUB digital monitoring solution



**FlowHUB Series**

- Flow and temperature monitoring - Measure, display, switch, transmit
- Low cost of ownership, accuracy 3% FS
- 5 flow sizes cover range 1 - 360 lpm, option of 210 / 420 bar
- Optional switches and analogue output (mA, V)



### Hydraulic flow monitors



**WP Series**

- Flows up to 550 lpm
- Pressures up to 240 bar
- Accuracy 4% of full scale
- Range of porting options
- Low pressure drop



### CT SAE J1939 CAN Turbine flow meters



**CT SAE J1939 CAN**

- Built-in loading valve optional
- SAE J1939 CAN compatible (configured to customer's specification)
- Wide range of hydraulic oil, lubrication oils, and fuels



**Accuracy:** 4% FSD  
**Pressure:** Up to 420 bar  
**Ports:** BSP / SAE  
**Applications:**  
 Hydraulic condition monitoring and test stands

**Flow:** Up to 400 lpm  
**Type:** See below

### High pressure flow indicators



**FI750 Series**

- Unidirectional, up to 180 lpm and 420 bar
- Optional thermometer
- Available in aluminium for oil, or brass for water



**FI1500 Series**

- Unidirectional, up to 400 lpm and 350 bar
- Optional thermometer
- Available in aluminium for oil, or brass for water



**RFI Series**

- Reversible, up to 200 lpm and 420 bar
- Built-in thermometer
- Available in aluminium for oil





# Diagnostic Test Equipment

## Portable hydraulic testers

**Accuracy:** 4% FSD  
**Pressure:** Up to 420 bar  
**Ports:** BSP / SAE  
**Applications:**  
 Agricultural, small-medium mobile machinery

**Flow:** Up to 200 lpm  
**Use:** See below

### Mechanical testers



**RFIK Series**



- Improved design, low pressure drop
- Measure flow (reversible), pressure and temperature
- Built-in loading valve, INTERPASS<sup>®</sup> protected
- No batteries required

### Pressure test kits



**PT100 Series**



- Complete kits for pressure testing
- Assembled to customer specification
- Fit test points wherever required in the circuit
- Kit includes gauges, hoses and test points

### Separate loading valve



**HV Series**



- Simulate machine performance (Bidirectional)
- Five models: up to 1500 lpm
- Safe and clean to use, INTERPASS<sup>®</sup> protected
- Use separately or with LT / CT flow meters

**Accuracy:** See below  
**Pressure:** Up to 480 bar  
**Ports:** BSP / SAE  
**Applications:**  
 Mobile machinery and large fixed installations

**Flow:** Up to 800 lpm  
**Use:** Bidirectional

### Simplified digital testers



**DHT 'T' Series**



- Measure flow (1% FS), pressure and temperature
- Simple 'On / Off' control
- Simulate machine performance using loading valve
- INTERPASS<sup>®</sup> protected

### Digital hydraulic multimeter



**DHM '4' Series**



- Measure flow (1% IR), pressure, peak, power and temperature
- Log results and email a test certificate instantly via QuickCert<sup>™</sup> App for iPhone<sup>®</sup>
- Easy to use, four standard screens
- Measure hydraulic pump efficiency with P-Q test
- Simulate machine performance using loading valve
- INTERPASS<sup>®</sup> protected

### P-Q Test Volumetric Efficiency





# Diagnostic Test Equipment

## Portable hydraulic testers

**Accuracy:** 1% IR  
**Pressure:** Up to 480 bar  
**Ports:** BSP / SAE  
**Applications:**  
Mobile machinery and large fixed installations

**Flow:** Up to 1500 lpm  
**Use:** Bidirectional

### Digital testers with remote inputs



**DHT '2' Series**

- Measure flow, pressure and temperature
- Secondary flow and speed inputs
- Simulate machine performance using loading valve
- INTERPASS<sup>(R)</sup> protected



**DNCR Series**

- Remote readout for use with LT / LTR Series
- Measure flow, pressure and temperature
- Secondary flow and speed inputs



### Digital test kit (up to 1500 lpm)



**DNCR 1500 KIT**

- Measure flow, pressure, temperature and optional speed
- Kit designed for hydraulic testing of very large mobile machinery
- Optional load valve rated to 1500 lpm and 420 bar to simulate machine load



**Accuracy:** 1% FS  
**Pressure:** Up to 480 bar  
**Ports:** BSP / SAE  
**Applications:**  
Mobile machinery and large fixed installations

**Flow:** Up to 800 lpm  
**Use:** Bidirectional

### Analogue testers with remote input



**HT '1' Series**

- Measure flow, pressure and temperature
- External speed input
- Simulate machine performance using loading valve
- INTERPASS<sup>(R)</sup> protected



### OEM test kits



**OEMS Worldwide**

- Custom test kits built to your specification
- Ideal tool kits for service engineers
- OEM branding and marketing solutions available
- Used by major mobile machinery OEMs worldwide



# Diagnostic Test Equipment

## Portable hydraulic testers

### Sensor Recognition (SR):

Sensors can be plugged into any input of an HPM readout, automatic recognition of the type, range and calibration of the sensor. No user input.

**Application:** Mobile hydraulic system testing

### Digital pressure gauge



HPM110 Series

- Digital pressure gauge with peak capture
- Two pressure ranges available 100 / 600 bar
- Backlit display
- Change engineering units



### Flow meters (SR & ID)



CT/CTR Series

- Precision turbine flow meters (1% IR)
- 12 models cover range 0.1 - 750 lpm, up to 480 bar
- Additional top ports
- With or without built-in loading valve



### Sensors (SR & ID)



Pressure / temperature sensors

- Pressure transducers rated up to 1000 bar
- Temperature sensor
- Speed sensor
- Current & voltage input converters for custom sensors



### Intelligent Digital (ID):

Digital sensors (CAN protocol) with automatic sensor recognition, connect in-line with one another using shorter cables. Uniquely identified by the datalogger.

**Application:** In-depth hydraulic system fault-finding

### Hydraulic data loggers (SR & ID)



HPM4000 Series

- Two models - choose between SR and ID
- Choose between 2 or 3 input version
- USB connectivity, Nano-USB up to 4GB
- Supplied with HPMComm software



### Hydraulic data loggers (SR & ID)



HPM6000 Series

- 3 models, offering between 16 & 26 inputs
- Connect Intelligent Digital (ID) and Sensor Recognition (SR) sensors
- Full colour 5.7" display, USB, Ethernet
- Supplied with HPMComm software



# Test Stand Instrumentation

## Flow, pressure, temperature speed sensors

### 4 - 20 mA sensors:

On-board electronics to optimise accuracy. Industry standard 4 - 20 mA output. Fast and simple to install. Other analogue outputs available.

### CT flow meters



**CT-mA Series**

- Precision turbine flow meters (1% IR)
- 8 models cover range 1 - 1500 lpm, up to 480 bar
- Additional top ports for pressure and temperature
- Other outputs available (mA, V, pulse)



### Pressure transducers



**MPT Series**

- Models cover pressure range 1 - 1000 bar
- Accurate to 0.25% full scale
- Fast response time
- Other outputs available (mA, V)



### Temperature sensors



**TP Series**

- Scaled up to 150°C
- Rated to 480 bar
- Fast response time
- Other outputs available (mA, V)



### Applications:

Condition monitoring, hydraulic test stands, control systems, remote monitoring

### C2000 hydraulic data-acquisition system



**C2000 Series**

- Complete hydraulic test stand solution
- Includes sensors, hardware, software and training (optional)
- Up to 64 inputs. Choice of mA and frequency
- Display, datalog and produce test certificates



### Speed sensors



**SP-TTL Series**

- Speed sensor with TTL output
- 0 - 2 kHz magnetic pickup
- Ideal for measuring pump/motor speed
- Connects directly into C2000



### Flow meters - special applications



**GF Series**

- Precision gear type flow meters (0.5% IR)
- 3 models cover flow range 0.1 - 150 lpm up to 420 bar
- Bidirectional
- 4-20 mA as standard







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**Webtec** reserve the right to make improvements and changes to the specification without notice



**Hydraulic measurement and control**