WEBTEC

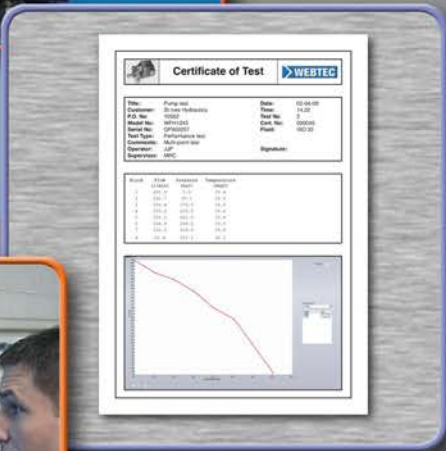# C2000

Hydraulic data acquisition system

Modular 8-64 inputs

Windows™ compatible Software

Hydraulic test solution

Print test Certificates

TCP/IP network ready

Dedicated high-speed controller

Hydraulic measurement and control

A complete hydraulic solution to provide professional test certificates for your customers

Receive a pump. . .

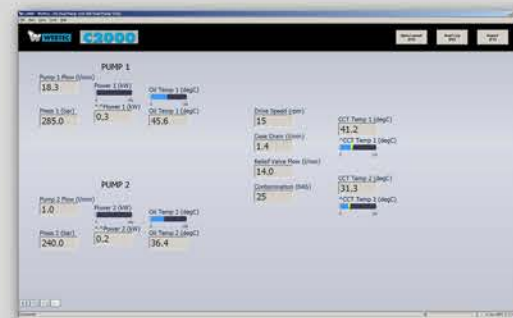Receive the pump (or other hydraulic component) from your customer

Open a previously used layout file on the C2000

If it is a new type of test, you can quickly create a new layout using the easy-to-use 'drag and drop' functionality.

Check on-screen values. . .

Run oil through the pump and display real-time hydraulic values (Flow, pressure, temperature, speed plus custom analogue measurements)

Super panel (show 12 key readings)

Normal panel (show all readings)

Show results graphically

Record test data

Using your own test procedure you can display real time values and record test results on a keypress

Enter customer and pump details.

Fault-finding
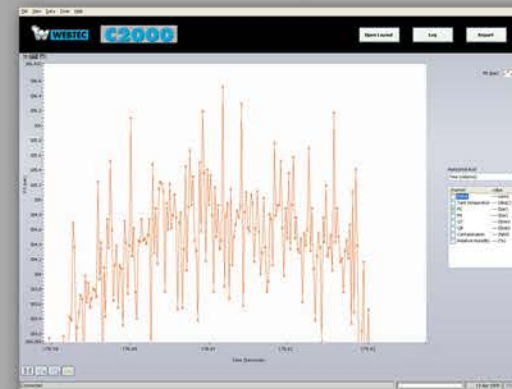
If you need to fault-find a problem you can carry out high-speed data-logging at the press of a button.

At speeds of up to 2000 times a second you can run a profile log (where the test is automatically triggered by an event) or a continuous log.

Print test certificate

Print the test certificate at the touch of a button, ready to send back to the customer with the pump.
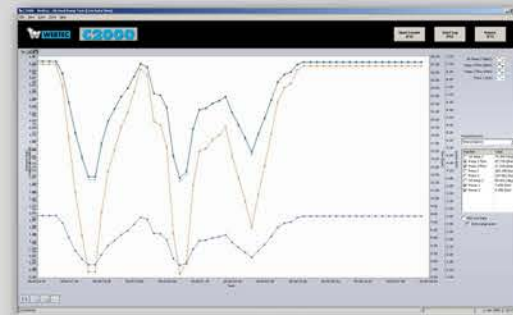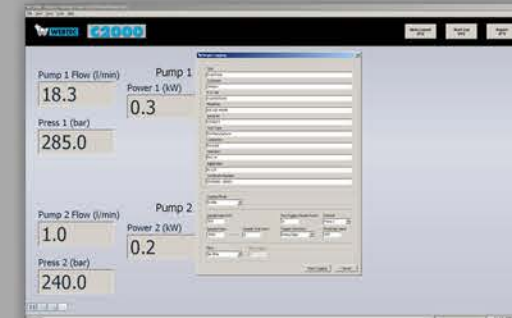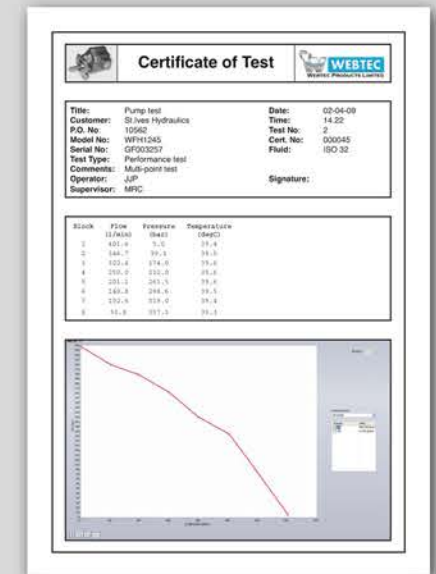

The data is saved on the C2000 and can be accessed from any other networked computer*

*Computer must be Windows compatible and have a licenced copy of C2000 viewing software running on it.

System architecture

Sensors. . .

- Flow
- Pressure
- Speed
- Temperature
- Flow (Case drain)
- Pressure
- High current

Data acquisition. . .

C2000 mid-box

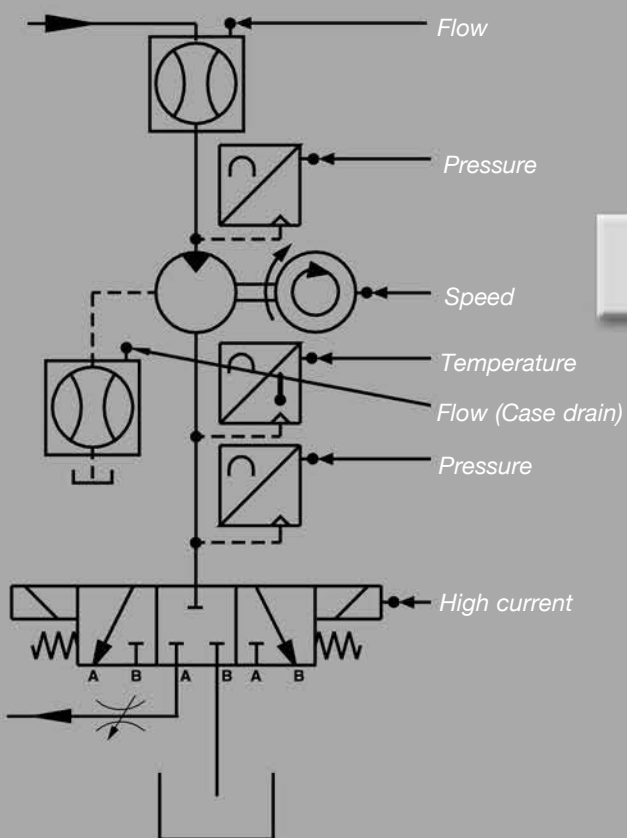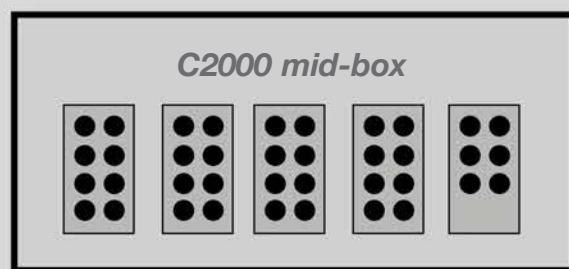The C2000 mid-box has a micro-processor built-in which carries out high speed data acquisition on all channels.

Built to suit your application in modules of 8 analogue inputs (4-20 mA) and 6 frequency inputs, the mid-box is scalable between 8 and 64 inputs.

UPS

Un-interruptible power supply

We know you can't afford for your test stand solution to be down. The UPS protects the C2000 against power surges or brief power cuts that could damage the system or cause data loss.

Data storage and display. . .

C2000 software

Control unit
(Data storage)

LAN
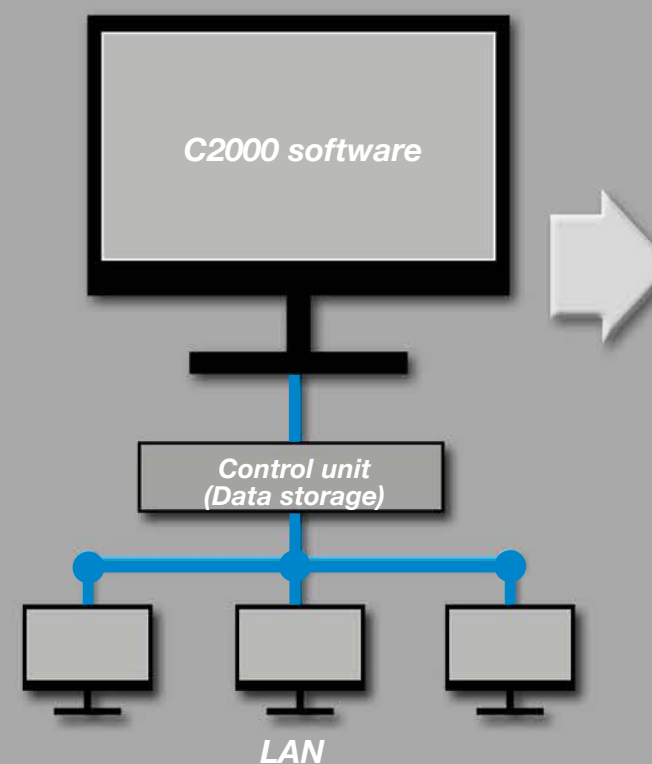
C2000 connects directly to your existing local area network (LAN)

Communication. . .

Print a paper certificate on any Windows(TM) compatible printer

Create a digital certificate (pdf)

Send data files via email (csv/xls)

Sensors. . .

CT - Flow meter

SP - Speed sensor

MPT - Pressure transducer

TP - Temperature probe

Choose from over 20 Webtec sensors and interface custom analogue inputs.

Data acquisition, storage and display. . .

- P1 (bar) -0.01
- P3 (bar)
- Rotor (rpm) 2192
- Q7 (l/min) 18.66
- Q7 (l/min)
- Tank temperature (degC) 50.08
- 0
- P6 (bar)
- Contamination (NAS) 5.00
- QR (l/min) 28
- Relative Humidity (%) -0.00

TCP/IP network

VDU screen (optional)

Software

Keyboard

Mouse (optional as C2000 can be run from the keyboard)

Control unit (Running Windows™ O/S)

Mid-box

Standard 19" rack (optional)

Expansion module for mid-box

UPS

Communication. . .

Certificate of Test

...we have completed the repair of your pump which will...

...Please find the pump test certificate attached to this email.

E-mail digital version of certificate to customer.

CT - Conditioned turbine flow meters (4-20 mA)

CT-mA   *CTR-mA*

BSP or SAE Ports

Turbine flow meters with and without loading valve built-in

Model number	Scaled range (lpm)	Calibrated range (lpm)	Max. cont. pressure (bar)
CT15-MA-B-B	0 - 15	1 - 15	420
CT60-MA-B-B	0 - 60	3 - 60	420
CT150-MA-B-B	0 - 150	5 - 150	420
CT300-MA-B-B	0 - 300	8 - 300	420
CT400-MA-B-B	0 - 400	10 - 400	420
CT600-MA-B-B	0 - 600	15 - 600	350
CT800-MA-S-B	0 - 800	20 - 800	480
CT1500-MA-F-S	0 - 1500	50 - 1500	420
CT300R-MA-B-B	0 - 300	8 - 300	420
CT400R-MA-B-B	0 - 400	10 - 400	420
CT600R-MA-S-B	0 - 600	20 - 600	480
CT800R-MA-S-B	0 - 800	20 - 800	480

* Accuracy 1% IR over 15 - 100% of range. Fixed error at 15% of range and below

MPT - Pressure transducers (4-20 mA)

BSP or NPT threads

Model Number	Scaled Range
MPT16-#-#-mA	0 - 16 bar
MPT40-#-#-mA	0 - 40 bar
MPT100-#-#-mA	0 - 100 bar
MPT250-#-#-mA	0 - 250 bar
MPT400-#-#-mA	0 - 400 bar
MPT600-#-#-mA	0 - 600 bar

TP - Temperature probes (4-20 mA)

BSP, SAE or NPT threads

Model Number	Scaled Range*	Output	Pressure (bar)
TP125-mA	0 - 150 °C	4 - 20 mA	480

* Maximum Continuous Temperature 125 °C

SP - Speed sensor (TTL output)

Model Number	Output	Range
SP-TTL	TTL	1 to 2000Hz

Custom analogue inputs

Custom analogue inputs available on request.
Contact sales for more information

The C2000 is a 3rd generation solution for displaying, logging and reporting hydraulic test information.

The C2000 offers the latest in data monitoring and logging capability. The super panel offers easy user configuration of up to 12 channels in either digital or slider mode.

Features:
- Up to 64 channels

Sensors available:
- Flow meters 1 to 1500 LPM
- Pressure transducers 1 to 600 bar
- Temperature transducer 0 to 125°C
- Speed sensor
- Standard 4 to 20 mA or TTL inputs for additional sensors

Three logging modes:
- Log on a keypress
- Profile logging
- Continuous logging
- Logging speed up to 2 kHz per channel
- Over 8 million readings capability

Four monitoring screens:
- Super panel
- Two standard panels
- Real time graphing
- Custom reports

Other:
- Analysis of results
- Ethernet connection
- Industrial control unit included as standard
- Optional 19" rack
- Help on line
- Export files to other packages
- Easy upgrade path for future expansion if needed

C2000 mid-box
Up to 5 modules as standard 5U height
Expansion box adds up to an additional 3 modules 4U height

Input signal type
4 to 20mA signals - analogue measurement 8 channels per module
TTL - frequency measurement - 6 channels per module

Operating conditions
Temperature range 5 to 35 Deg C
Humidity 10 to 90 RH

Rack
12U 19" open cabinet system
Actual size is 0.65m wide x 0.65m deep x 0.80m high (incl' wheels) or 0.75m high (excluding wheels).

Control unit specification
2U height
Processor 2.80GHz Core2Duo,
RAM 2GB
Hard disk 250GB
Operating system -Windows XP service pack 3

UPS
420 watt 650 VA
Time at half load 9 minutes

Sensors (see separate bulletins)
Flow meters - CT and CTR Range
Pressure transducers - MPT range
Temperature transducer - TP range
Speed transducer - SP range

Ordering Information
230 volt system FT10232 - XXX
120 Volt system FT10287 - XXX

First X - 0 for no rack, 1 for with rack
Second X - no of TTL modules - 6 channels per module
Third X - no of 4-20mA modules - 8 channels per module

Above part number contains the following:
C2000 connection box plus expansion box if needed

Control unit, including keyboard and mouse, excludes a monitor.

C2000 software disc

Uninterruptible power supply (UPS)

Customer testimonial & global support

"...it is very easy to use."

"...Visually, it's something we use a lot for our own checks. Then we record the data and we can forward the data to the customer in the form of a certificate. We can show the actual figures that we have seen on the test stand. We can go through efficiencies with the customer and it gives it a transparent feel, you know. They know that the job's been done properly and tested to the OEM standards."

Gavin Makins (MD)
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See C2000 in use...
Contact sales to see a video of the C2000 in use or request a demonstration disc today featuring a full hardware & software demonstration.

WEBTEC

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Your Webtec Products representative:
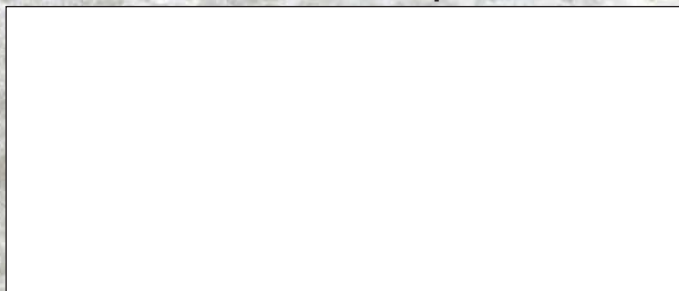
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