

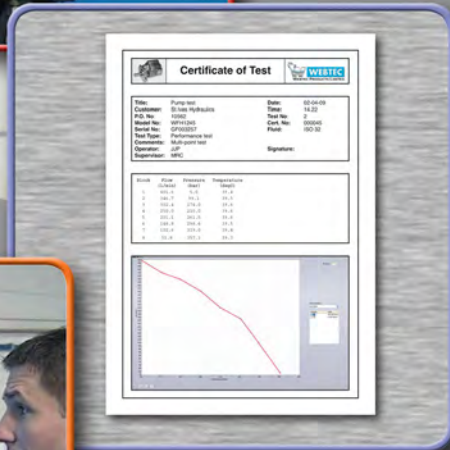
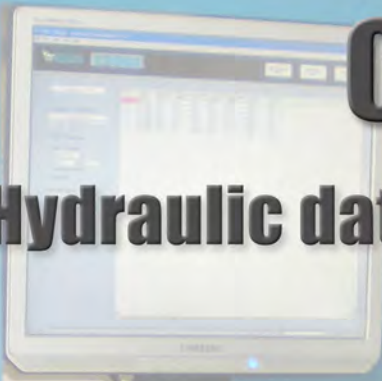


WEBTEC

WEBSTER INSTRUMENTS

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**



Certificate No.8242

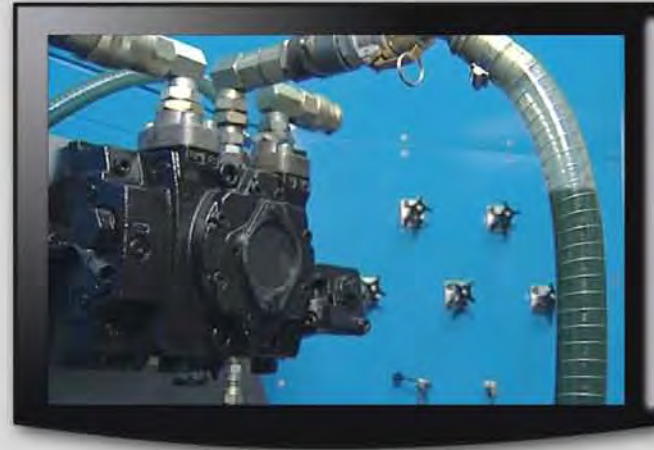
A complete hydraulic solution to provide professional test certificates for your customers

Repair/Rebuild a pump...



Repair or rebuild your customers pump, motor or other hydraulic component.

Verify performance on-screen...



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

Record test data

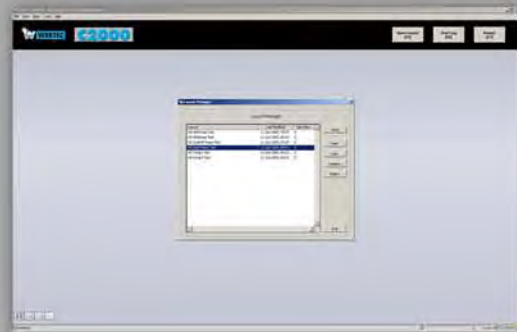


Using your own test procedure you can display real time values and record test results on a keypress

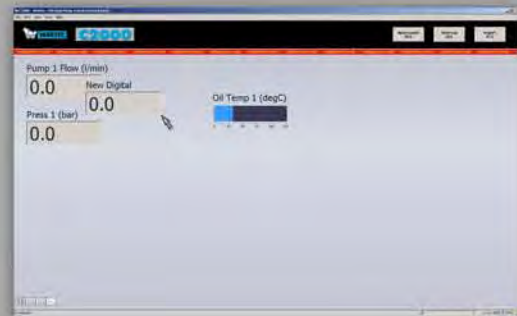
Print test certificate



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



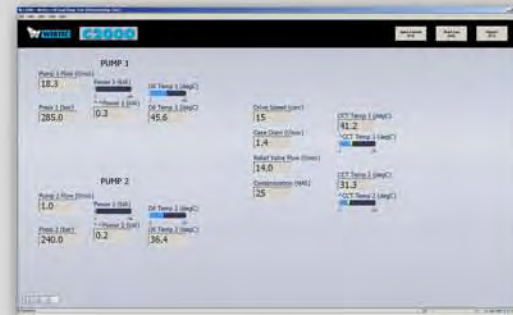
Open a previously created screen layout file that was designed for a particular type of component or test.



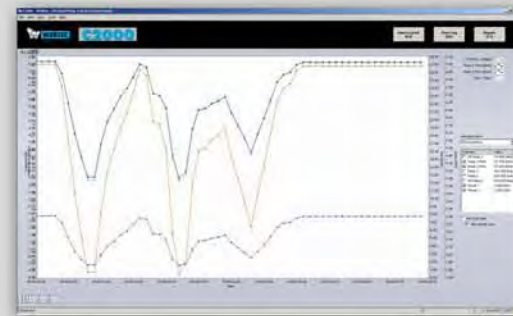
If it is a new type of test or component, you can quickly create a new screen layout file using the easy-to-use 'drag and drop' functionality.



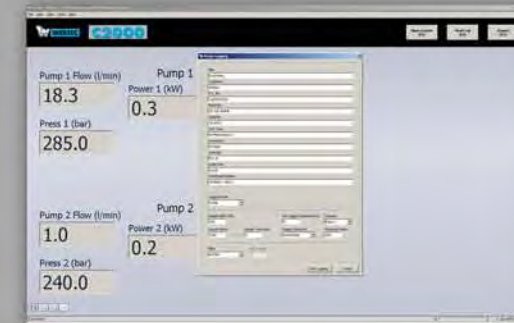
Super panel (display up to 12 inputs)



Normal panel (display all inputs)

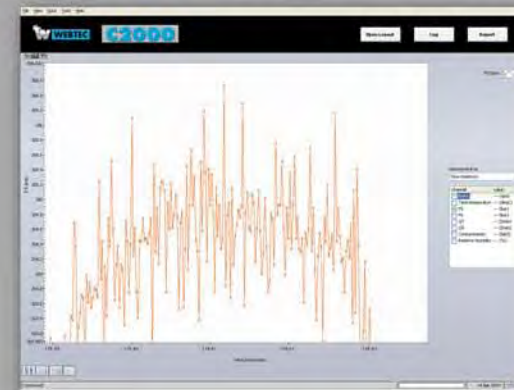


Display inputs graphically



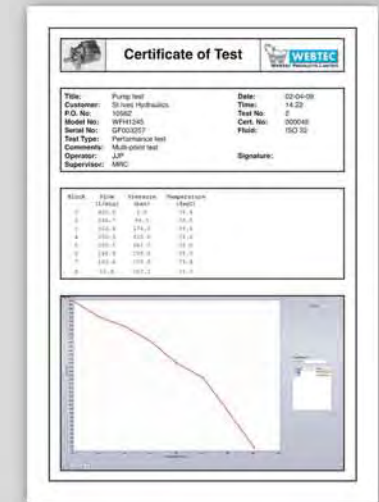
Enter customer & component details.

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.

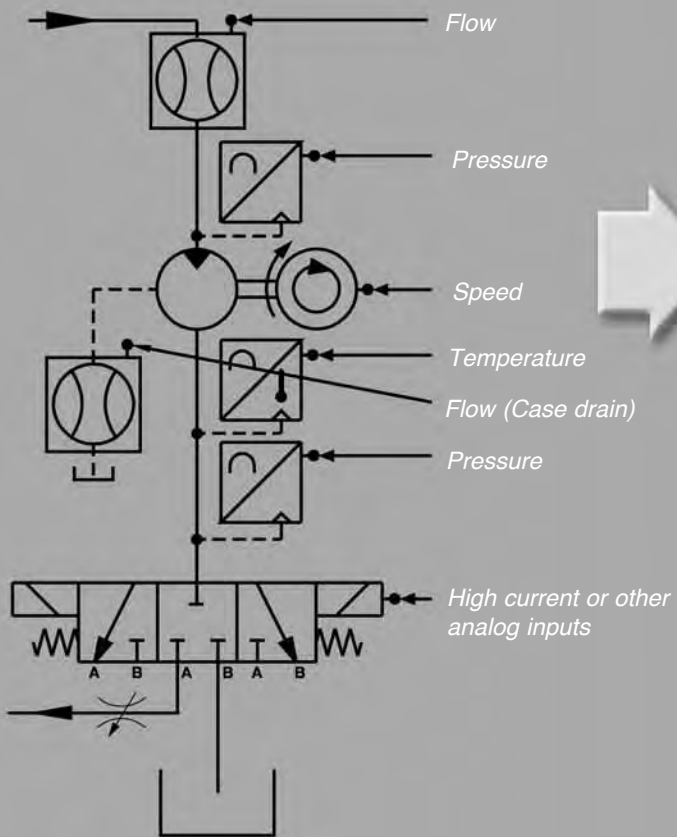


The data is saved on the C2000 and can be accessed from any other networked computer*

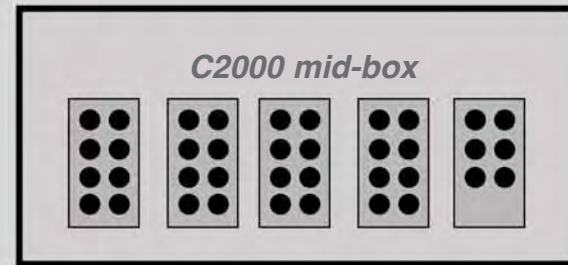
*Computer must be Windows compatible and have a licenced copy of C2000 viewing software running on it.

System architecture

Sensors...



Data acquisition...



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

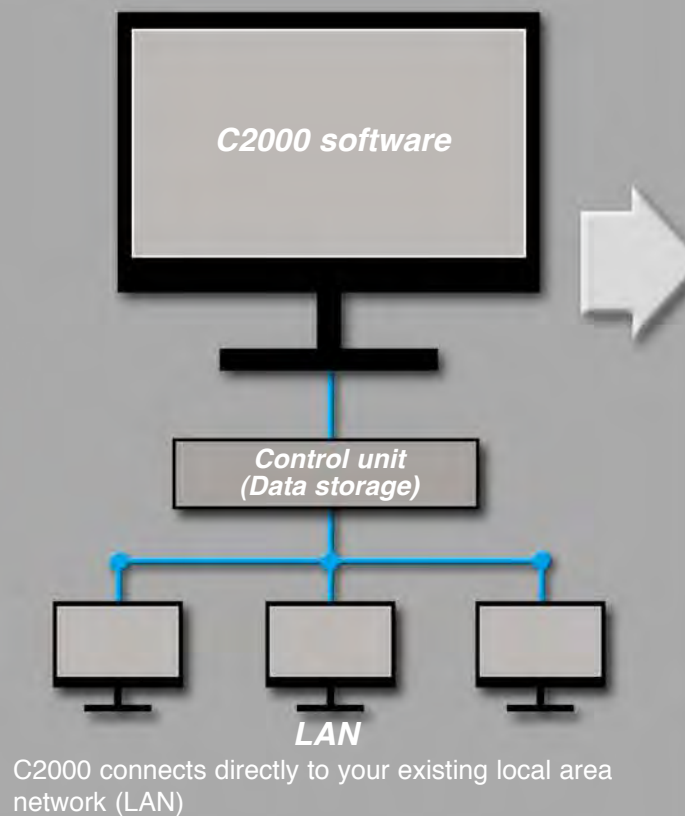
Built to suit your application in modules of 8 analog inputs (4-20 mA) and 6 frequency inputs, the mid-box is scalable between 8 and 64 inputs.



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...



Communication...

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



Create a digital certificate (pdf)



Send data files via email (csv/xls)

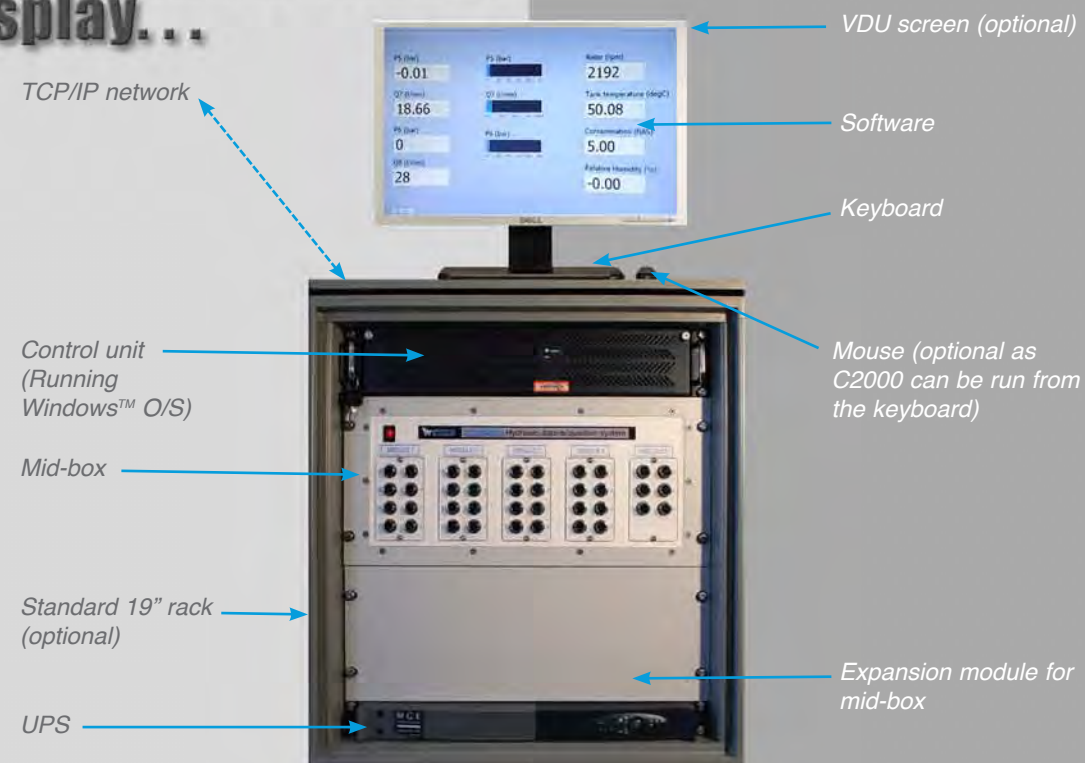


Sensors...



Built-in flexibility to interface with your unique 4-20 mA analog inputs

Data acquisition, storage and display...



Communication...

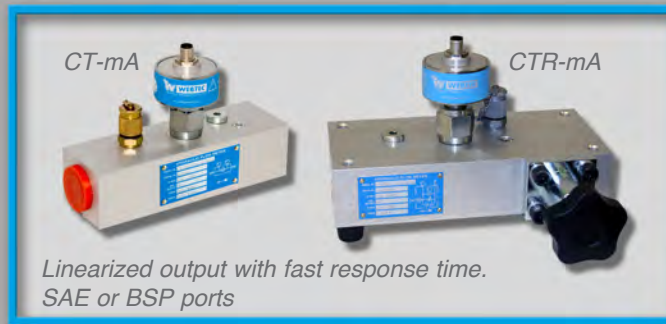


E-mail digital version of certificate to customer.

Hydraulic sensors

Technical specifications

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



Linearized output with fast response time.
SAE or BSP ports

Turbine flow meters with and without loading valve built-in

Model number	Scaled range (gpm)	Calibrated range (gpm)	Max. cont. pressure (psi)
CT15-MA-S-S	0 - 4	0.25 - 4	6000
CT60-MA-S-S	0 - 16	0.8 - 16	6000
CT150-MA-S-S	0 - 40	1.3 - 40	6000
CT300-MA-S-S	0 - 80	2 - 80	6000
CT400-MA-S-S	0 - 100	2.5 - 100	6000
CT600-MA-S-S	0 - 160	4 - 160	5000
CT800-MA-S-S	0 - 210	5 - 210	7000
CT1500-MA-F-S	0 - 400	12.5 - 400	6000
CT300R-MA-S-S	0 - 80	2.6 - 80	6000
CT400R-MA-S-S	0 - 100	2.6 - 100	6000
CT600R-MA-S-S	0 - 160	5.2 - 160	7000
CT800R-MA-S-S	0 - 200	5.2 - 200	7000

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

MPT - Pressure transducers (4-20 mA)



High Performance
Fast 1ms response
SAE or BSP threads

Model Number	Range (psi)
MPT200PUMA	200
MPT600PUMA	600
MPT1k5PUMA	1500
MPT4k0PUMA	4000
MPT6k0PUMA	6000
MPT7k5PUMA	7500
MPT10k0PUMA	10000

TP - Temperature probes (4-20 mA)



High pressure capability
SAE, NPT or BSP Threads.

Model Number	Scaled Range*	Output	Pressure (psi)
TP125-mA	32-302 F (0-150 C)	4 - 20 mA	6900

* Maximum Continuous Temperature 125 °C

SP - Speed sensor (TTL output)



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

Custom analog inputs

Custom analog inputs (load, force, torque, linear travel, amperage....) available on request.

The C2000 is a 3rd generation solution for displaying, logging, reporting and archiving 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 0.25 - 400 gpm
- Pressure transducers 15 - 10000 psi
- Temperature transducer 32-300 Deg F
- 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 and VDU
- 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 - analog
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
Overall size - 0.65m x 0.65m x 0.65m

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 & user license

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)
G M Hydraulics Services Ltd



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Webtec Products Limited reserve the right to make improvements and changes to the specification without notice.

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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.

Your Webster Instruments representative:

