

Transducer and Controller Display CCD104

Four Channel display for pressure and flow transducers / controllers

- Fully integrated 4 channel, 5 digit display and power supply for a wide choice of gas mass flowmeters, gas flow controllers, capacitance manometers and all-media pressure transducers.

- RS232, RS485, Ethernet and analogue interfaces as standard.

- Setpoint input for 'slaved' commands.

- +/- 15 volt and 24 volt transducer supply.

- 16 bit resolution, 0.02% of reading accuracy.

- 0-5 volt set point output programmed from front panel or digital comms.

- Aluminium case for bench top use or panel mounting.

- Programmable alarm output (mechanical volt free changeover contact).



The CCD104 is a multi featured process display controller, designed to be flexible, able to adapt for use in many processes. It is mainly based upon Chell's signal channel display controller, the CCD100 and shares most of its features, but for multiple channels.

The CCD104 has four main channels. These can be used to operate flow controllers or display the output from pressure transducers. The CCD104 also has the ability to power these devices with either +/-15dc or +24vdc.

Interfaces to the CCD104 include Ethernet, RS485, RS232 or it can be used with just analogue signals.

The CCD104 features a graphical LCD display which allows us to display the relevant units on the display as well as generating an easy to use menu structure for configuration. Any units can be accommodated with a free text input.

The CCD104 contains all the features that could be required on a transducer display including digital comms, alarm outputs, configurable units, multiple transducer supplies etc etc. The unit can also be customised for a particular application by the supply of custom firmware.

Much attention has been paid to the menu structure within the CCD104 and in particular the ease of which the setpoint output can be changed. All menu feature backwards and forwards options and numeric input can be both up and down.



CCD100 Specifications	
Full scale input	±5 volt or ±10 volt (limits ±10.8 volt)
Input impedance	>100KΩ
Measurement resolution	16 bit
Command output	0-5 volt operator selectable
Error	0.02% of reading plus 1 digit
Display type	LCD graphical display
Display range	-9.999 to +99.999 (HR version -9.9999 to +99.9999)
Transducer power supply	±15 volts at 250mA per channel or 24 volts DC at 150mA per channel.
Operating temperature range	+5 to+50°C
Storage temperature range	-20 to+70°C
Maximum relative humidity	95% at 50°C (non-condensing)
Warm up time	20 mins
Power supply	Univesal 110/115/230 VAC 50/60Hz
Dimensions	210mm x 88mm x 210mm
Weight	1.85 Kg
Panel cut out	2U x 42HP
Mains connector	IEC 320
Alarm output	Mechanical changeover relay (max 50VDC)
Digital Comms	
Serial	RS232, RS485 (4 wire)
Baud	19200-57600 8 data bits, no parity, 1 stop bit.
Addressing	a to h
Ethernet (TCP/IP)	Configurable IP address and subnet mask. Single host stack.



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Chell Instruments Ltd
 Folgate House
 Folgate Road
 North Walsham
 Norfolk NR28 0AJ
 England

Tel.: +44 (0)1692 500555

Fax: +44 (0)1692 500088

E-mail : sales@chell.co.uk

Web site : www.chell.co.uk