



Chell MK2 CCD104

Four Channel Transducer and Controller Display

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

• **USB, Ethernet and analogue interfaces as standard.**

• **Setpoint input for 'slaved' configurations.**

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

• **16 bit resolution.**

• **Linearised data.**

• **0-5 / 0-10 volt set point output controlled from front panel or digital comms.**

• **Voltage or current sensor support.**

• **Capacitance touch front panel for quick and reliable data input.**

• **Programmable alarm output (mechanical volt free changeover contact).**

• **EtherCAT and PID control available as an option.**

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 single channel display controller, the CCD100 and shares most of its features, but for multiple channels.

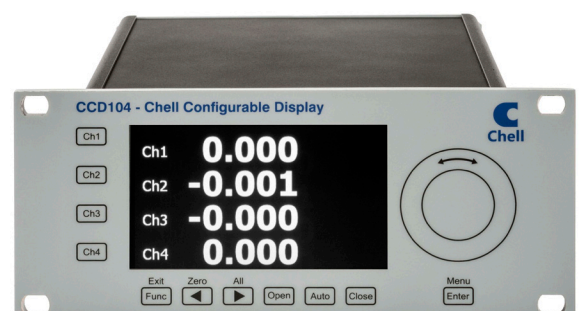
The CCD104 has four main channels. These can be used to operate flow controllers or display the output from pressure transducers. The CCD104 also has the ability to power these devices with either +/-15Vdc or +24vdc.

Interfaces to the CCD104 include Ethernet, USB or it can be used with just analogue signals. It also features the option of EtherCAT with its non-vendor specific interfacing.

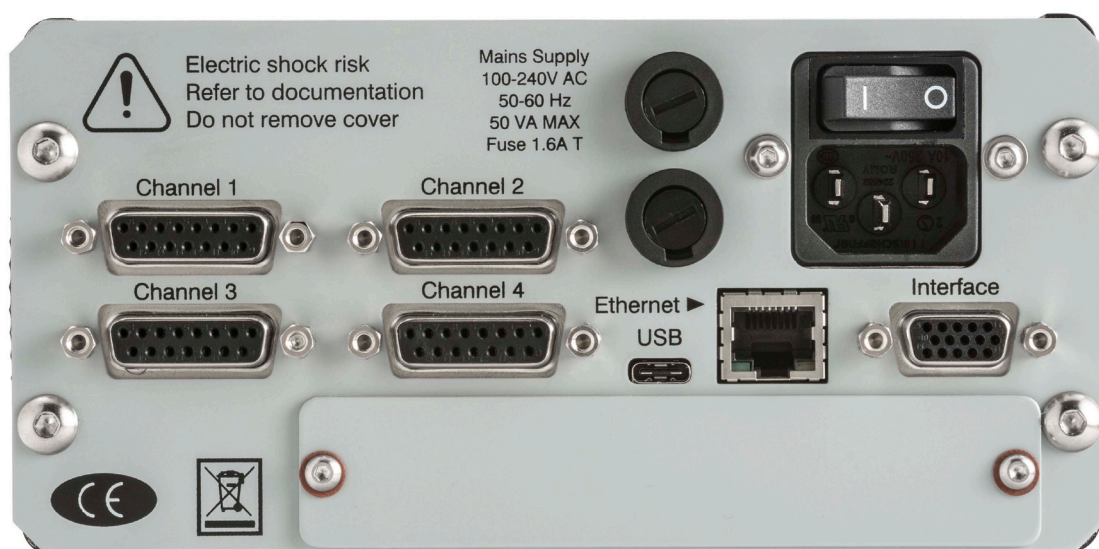
The CCD104 features a graphical LCD display which allows us to display the relevant units on the display as well as generating an easy to use menu structure for configuration. Any engineering units can be accommodated with a free text input.

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 or expansion options.

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 menus feature backwards and forwards options and numeric input can be both up and down.



CCD104 Specifications	
Full scale input	±10 volt (±10.8 volt guaranteed) / 4-20mA factory option
Input impedance	>100KΩ
Measurement resolution	16 bit
Command output	0-10 volt operator selectable
Error	0.02% of reading plus 1 digit
Display type	Full colour display 480 x 272
Display range	-9.999 to +99.999
Transducer power supply	±15 volts at 250mA, 24 volts DC at 150mA per channel
Transducer connector	4 x 15 way 'D' type (female on CCD104)
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	110/115/230 VAC 50/60Hz
Dimensions	210mm x 88mm x 210mm
Weight	1.85Kg
Panel cut out	2U x ½ 19" Rack
Mains connector	IEC 320
Alarm output	Mechanical changeover relay (max 50VDC)
Digital Communications	
Serial	USB C (USB 2.0 over USB C connector)
Ethernet (TCP/IP) and EtherCAT (option)	Configurable static IP address and subnet mask. Single host stack. 100 Base T



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