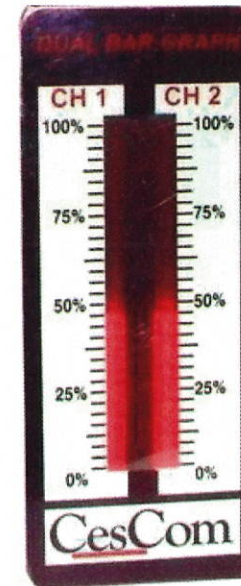




Process Control Display with PLC & communications interfaces

Features

- Dual isolated inputs
- Dual 32-segment high resolution super-bright LEDs
- "Smooth Move" damped display
- Programmable OC alarm output
- **Switch-mode** regulator
- 82mm x 18mm display window
- 4-20ma inputs or 0-10V option
- Programmable Full-scale Calibration
- IP56 rated metal enclosure



Overview

Bargraphs should be easy to read and especially from a distance, even in bright sunlight. The CE0040 is what a bargraph should be and what's more it is a dual-channel unit with optical isolation on each channel.

Sealed in an IP56 rated metal enclosure the unit may be front mounted to control panels and clamped in place with the supplied mounting hardware. Connections are made with supplied standard fast-connect combicon screw-terminal plugs. Supply power may vary from +9 to +30VDC permitting this unit to be run directly from PLC power and truck batteries.

Visually, the display is very easy to view and with its 32 segments per channel offers a high resolution resulting in a smooth bargraph display. Further enhancements are made in software to dampen the response of the display to match that of human operators.

The superior quality of the unit makes it the product of choice in demanding applications yet its low-cost makes it a sensible choice in any application.



Specifications

Supply Voltage	8-30VDC
Current	60ma @24VDC, 100ma @12VDC
Physical	54Hx132Wx40D mm
Environment	-40°C to +85°C operating, IP56 rated
Input	4-20ma (through 10ohms)
Output	2A switch to common
LED	32 x 2 super-bright RED (>5,000mcd max)
SAMPLE RATE	1000 samples/sec – dampened response
Connections	4 way 5mm screw terminal block
Standards	IEC 1010; AS/NZS 3548 EMI/EMC; C Tick compliant

OPERATION

Each input is sampled independantly at 1,000 samples per second with a 10-bit resolution. The results are sent via an optically-isolated barrier to the display processor which ranges and smooths the display on each 32-segment display. At start-up the display will do a self-test by running a sequence through each led which can then be visually checked.

CALIBRATION

Each channel may be adjusted for full-scale display with the current input by connecting the CALIBRATE input to the +VIN momentarily. If the input is active the current reading will be used to set full-scale display for that channel or both.

If the input is inactive the calibration will be ignored on that channel. Either way, after the calibration signal is applied the unit performs a reset and start-up display as a way of indicating that it has performed the calibration request.

Note: Early models do not have this feature unless they have been factory modified. If the unit does not perform a reset and start-up display when the calibrate signal is applied then it does not support this feature.

CONNECTIONS

POWER

1	GND	
2	+VIN	8-28VDC Input
3	+VIN	
4	CALIBRATE	Calibrate input

INPUTS

1	1 IN-	
2	1 IN+	4-20ma input
3	2 IN-	
4	2 IN+	4-20ma input

