

# Temperature interface modules

**GCS 630**  
**GCS 640**



- GCS630 single input**
- GCS640 16 inputs**
- PLC compatible**
- Optional inputs**
- 0-10v analog output**
- multiplex on single PLC input**
- Optional digital display**
- 24v operation**
- activated by PLC digital output**

The GCS630 and 640 modules provide cost effective multiple analog inputs to PLC systems using a single analog input.

When the module is activated by 24v from a PLC output, the analog output is active. When there is no active input the 10v output is at high impedance allowing many modules to be connected in parallel to a single input.

The GCS640 with 16 inputs controls its own scanning and provides 4 outputs to indicate to PLC inputs the input number that is active and one "read" output to confirm data is valid. All these outputs are high impedance when not activated allowing many units to be connected in parallel.

For example a simple PLC with 1x10v analog input, 5 digital inputs and 6 digital outputs can with 6 x GCS640 modules monitor 96 sensors with the same measurement range with a total scan time of less than 2 minutes.

Another example is a simple PLC with a single analog input and 16 digital outputs with 16 GCS630 modules to measure 16 different ranges.

Used with GCS280 temperature probes temperature measurements with an accuracy of 0.1 degree can easily be achieved. Inputs from PT1000, voltage and 4-20 mA can also be used.

**Specifications :** Analog Output: 0-10v, Inputs: GCS288 temperature probe, PT1000 sensor, 4-20mA, 0- 0.1 to 10v, Input to activate 24v. Analog output high impedance when not active, GCS640 digital outputs 24v, "read", sensor 1,2,4,8 in binary code, high impedance when off. Optional digital display for continuous readout in engineering units (active on input 1 of GCS640 when not scanning) Power supply: 24v +/- 10%. Module dimensions: 85mm long x 60mm high and 35mm wide (GCS630) 70mm (ICA64).

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