

# Datasheet

## PLC Commander



Our passion is to provide **peace of mind** to customers about their remote sites or equipment. Our easy-to-use platform enable users to take control.

The **PLC Commander** monitor and control equipment according to a preset configuration, providing automated tasks to be executed.

### ***Why PLC Commander?***

- **Easy to use** configuration setup (just choose and click)
- **Expandable** hardware plugins
- **PLC programming** made easy
- Advanced **power and battery** management
- **Local** support desk

### ***Product Highlights***

- Advanced timer functions (delays, date & time)
- Variable counter (pulse, incremental)
- IO constraints
- Logic control (and / or statements)
- Up to 32 opto isolated digital **inputs**
- Up to 32 relay **outputs** (8amp)
- 1 **analogue** input
- 10 – 24vDC power input with
- 1 backup battery input
- 2 **temperature** inputs (with interface)
- **Serial** interface port



### **Please Note:**

Another version of the PLC Commander, called the **GSM COMMANDER**, is available with built- in GSM telemetry functionality. (Model no: Gcxxx)

**BaseLogger** SMS software and **CentralCommand** GPRS software is also available for the GSM Commanders.

## Feature Matrix

Model	Onboard Inputs	Onboard Outputs	Expandable Inputs/Outputs	Max Number of Statements	Max number of Messages	Max Length of Messages	Setup Memory	Temp probes -17 to 35°C or 0 to 100°C	0-10v Analog Inputs	Battery / Power Monitor	Configuration Via USB
PLC1280	2	2	32/32	128	128	128	8kb	2	1	YES	YES

### Matrix Feature Descriptions

<b>Onboard Inputs</b>	The number of inputs provided on the base unit itself
<b>Onboard Outputs</b>	The number of outputs provided on the base unit itself
<b>Expandable Inputs/Outputs</b>	The maximum total number of Inputs/Outputs that can be expanded to by fitting expansion units
<b>Max Number of Statements</b>	A measure of the amount of complexity that can be programmed into the unit. Each statement is of the form IF <ABC happens> THEN <do something>, such as IF Input 1 goes Active, THEN send "Generator Tripped" via serial port.
<b>Max Number of Messages</b>	The maximum total number of messages that can be programmed into the unit
<b>Max Number of Statements</b>	The maximum total number of behaviour statements that can be programmed into the unit
<b>Setup Memory</b>	The amount of memory that is available for setup. - This is a measure of how much information the setup can contain.
<b>0-100deg Temp Probes supported</b>	The number of temperature probes the base unit can accept
<b>0-10v Analog Inputs</b>	The number of analog Inputs available
<b>Battery / Power Monitor</b>	The ability to detect power failures and monitor a connected battery.
<b>Configuration Via USB</b>	The unit is configured via software from a PC.

## Base unit Technical Specifications

<b>Digital Inputs:</b>	Opto-isolated. Inputs draw 10-30mA, depending on the voltage. Can accept DC signals of any type, including: <ul style="list-style-type: none"> <li>- Dry Contacts</li> <li>- Open Collector (NPN)</li> <li>- Open Collector (PNP)</li> <li>- DC Voltage (10-20V)</li> </ul>
<b>Digital Outputs:</b>	SPDT Relays Rating: 8Amp DC (10-48v) <b>OR</b> 4Amp AC (110-400v) ( <i>non inductive loads</i> )
<b>Current Consumption:</b>	60mA at Idle (no inputs or outputs active)
<b>Power Supply:</b>	10-24v DC via DC Jack or Screw Terminal It is advised that the base unit be powered from its own dedicated supply in industrial applications.
<b>Operating Temperature:</b>	-10 to +60deg C
<b>Storage Temperature:</b>	-20 to +85deg C
<b>Dimensions:</b>	"GC" Series: 148 x 86 x 28mm "GB" Series: 127 x 73 x 28mm

## (B) Expansion Units

### (Compatible with "PLC and GC" Series only)

Expansion units are connected to PLC series base units to expand the number of inputs and outputs that are available. Multiple expansion units can be connected to a base unit, to provide for up to 32 inputs and 32 outputs.

### Current Expansion units include:

GX0505 : 5 x input and 5 x output Expansion

GX1001 : 10 x input Expansion

## Expansion units Technical Specifications

<b>Digital Inputs:</b>	Opto-isolated. Inputs draw 10-30mA, depending on the voltage. Can accept DC signals of any type, including: <ul style="list-style-type: none"> <li>- Dry Contacts</li> <li>- Open Collector (NPN)</li> <li>- Open Collector (PNP)</li> <li>- DC Voltage (10-20V)</li> </ul>
<b>Digital Outputs:</b>	SPDT Relays Rating: 8Amp DC / 4Amp AC (non inductive loads)
<b>Current Consumption:</b>	~15mA for each active input, 40mA for each active output
<b>Power Supply:</b>	12v DC via Screw Terminal
<b>Operating Temperature:</b>	-10 to +60deg C
<b>Storage Temperature:</b>	-20 to +85deg C
<b>Dimensions:</b>	147 x 103 x 28mm

## ***(C) Accessories***

### **Temperature probes**

GT002 : Temperature Interface

Allows up to 2 x temperature probes to be connected to a "PLC and GC" series Base Unit.

GT001-1 : 0°C – 100°C temperature probe with 2 wire for "PLC and GC" units (requires GT002)

GT003-1 : -17°C – 35°C temperature probe with 2 wire for "PLC and GC" units (requires GT002)

### **Power Supplies & Batteries**

Various switching PSU's and 12v, sealed lead-acid batteries are available.

### **Cables**

Serial, USB to Serial Converter and Expansion ribbons are available.

### **KIT Products**

Complete electrical outdoor panel (IP65). Single or three phase. Box, backplate, trunking, terminals, battery. Buy your PLC Commander Box model and we will build it inside.

Need a panel for your specific application? Contact us, and we will quote and build to your requirements.