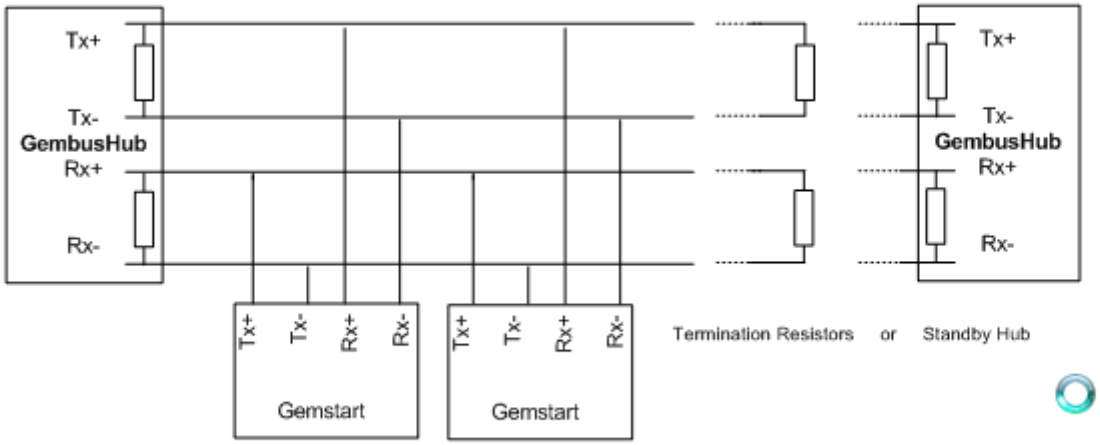
Gemstart Connection and Termination

The two ends of the link should be fitted with 120ohm termination resistors. Normally the GembusHub will be fitted to one end of the link. In this case the built in termination resistors should be turned on using the front panel dip switches.

At the other end of the link from the GembusHub you should add a 120ohm termination resistor connecting Rx+ and Rx-, and another resistor connecting Tx+ and Tx-. Or use the GembusHub resistors if a unit is fitted at both ends.



Technical Specification	
Part Number	GBH-004-001
Physical	
Mounting	DIN rail or surface mount
Weight	600g
Connectors	Phoenix MC1.5 Series (3.8mm pitch) connector: 3 way for PSU
	Phoenix MC1.5 Series (3.8mm pitch) connector: 5 way for Gembus
Electrical supply requirements	
Power	3 Watts
PSU	12 to 24 Vdc +/- 20%, 250mA
Communications	
Ethernet	10/100 Mbit/s RJ45
USB	USB type B connector. Appears as COM port on PC.
Temperatures (C)	
Operating Temperature	-40 to +60 C
Storage & Transport	-40 to +60 C

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APSTAR
LIMITED
IN CONTROL SINCE 1988

GembusHub Data Sheet

Part number: GBH-004-001

1. Easy to install and configure Gembus to Modbus protocol converter for 4 Gemstart links each of 100 Gemstarts.
    - Each link magnetically isolated
    - Tx and Rx termination resistors user selectable
    - Fully configurable from PLC code, or from software configuration package
    - Simply connect to pre-existing Gembus serial links
2. LED based indication and diagnostics
    - Each LED indicates various conditions.
    - USB connection available for diagnostic use
    - Unit firmware upgradeable on site
3. Designed for industrial use
    - Can be DIN rail mounted
    - Can be screwed directly to back plate
    - 12-24Vdc 250mA
    - Units can be used on both sides of a Gembus link, one master one standby.
4. Flexible communications to control systems
    - Use with Modbus, the most widely implemented protocol there is.
    - Modbus TCP/IP or RTU
    - Up to 16 Modbus TCP/IP clients supported
    - Used with Siemens S7-1200, GE Fanuc Rx3i and Schneider Electric M340
5. Configuration and Monitoring Application available
    - Contact Apstar for details of PLC and computer, hardware and software solutions
    - USB port appears as COM port on Windows PC, .inf file available from Apstar

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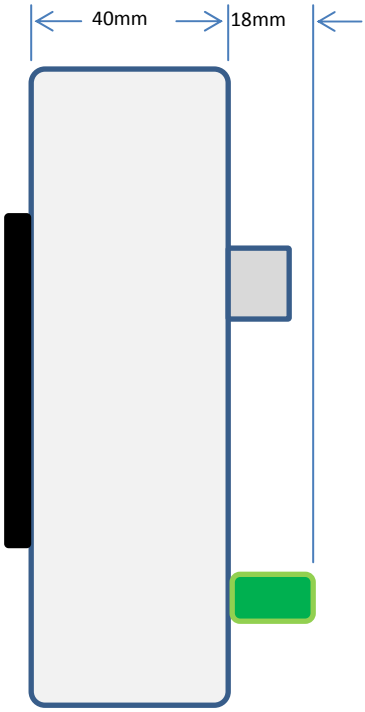

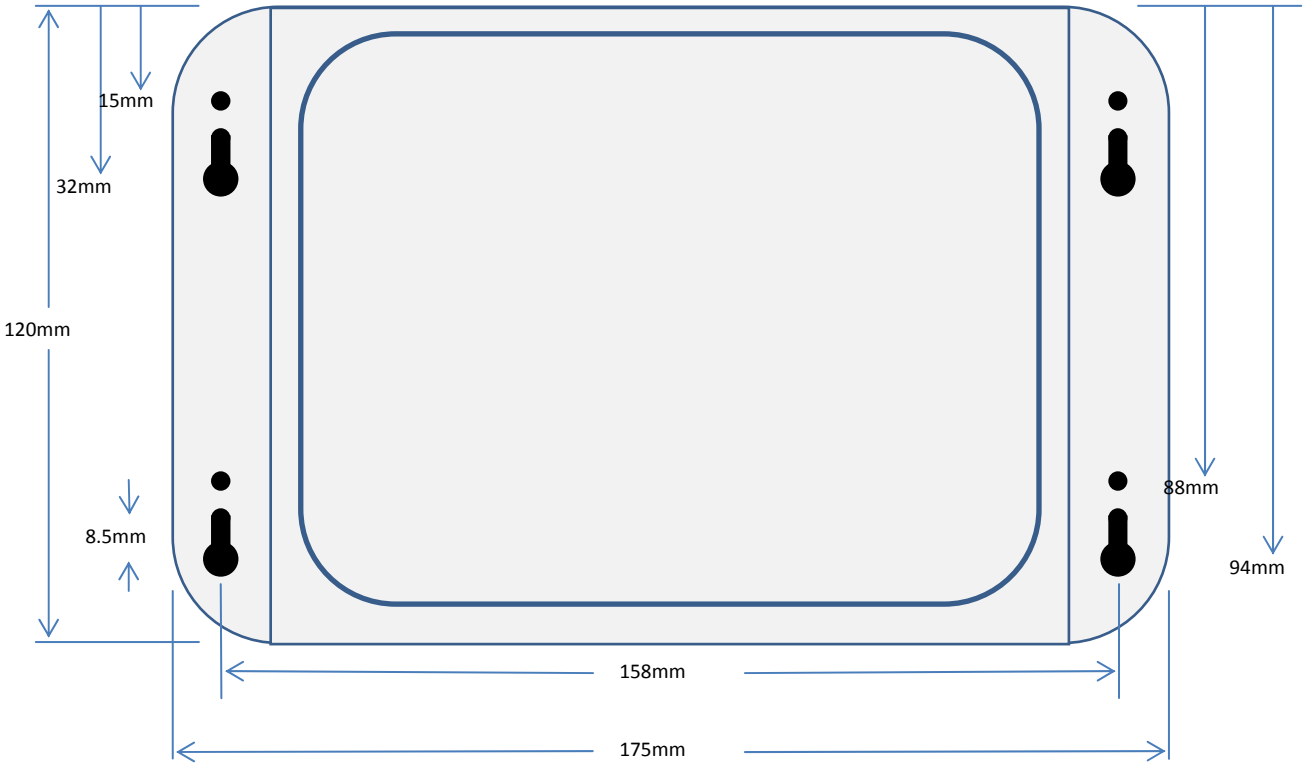

Return to Manufacturer for re-cycling at end of life.

CE

Designed and manufactured in the EU

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