

dynamic logic



GSM Interface For use with D4140 Series Outstations

Product Description

The GSM Interface Unit provides a wireless gateway from the D4140 Frontier to the outside world. It is supplied as an 'add on' device and as such may be used to convert an existing D4140 in the field within a few hours.

The GSM interface is a seamless upgrade for those sites that do not have PSTN or licensed radio facilities maybe due to cost and/or access.

It normally sits in standby mode with the D4140 powered down. As programmed the D4140 powers up and logs then powers down as normal. If an alarm is received or the D4140 is accessed from the masterstation the GSM transmits and receives data as normal at 1200 baud. On completion of the transaction, the D4140 is instructed to resume standby mode.

Technical Specifications

The GSM Interface (Dynamic Logic supply) comprises: -

- GSM interface box (Dimensions 190mmL x 190mmW x 130mmD) containing the pre-programmed GSM transmission/reception unit and the hardware interface PCB;
- The 2m RS232 communications link between the GSM and the D4140;
- Suitable cable glands for maintaining the IP65 rating on the GSM interface box;
- Pre-programmed EPROM containing the updated firmware for the D4140;

Customer supplied components include: -

- Air-time digital 3Volt SIM card;
This can be source from either Cellnet or Vodafone please contact customer services at either and ask for a Phase 2 mini-sim for a Siemens GSM M20 terminal modem.
- Antenna and cable;
Antenna requirements may vary between installation due to GSM coverage and location however the following is intended as a typical guide along with details of supplier: -

'EuroBase' Hole Mount Kit.

Code: EB923-4F
Code: J01702A0001
Price can be obtained directly from TDC address below.

The J01702A0001 adaptor is required as the cable and the M20T are terminated with the same connector.

The Eurobase offers an alternative (and separate) product range to the 'M8' base range and 'standard' range of cellular mobile antenna. Any standard FME cable assembly connects directly into this base.

The Eurobase is supplied separately as a component, or assembled in kit form with low loss co-axial cable and antenna.

Supplier : Telecom Design Communications Ltd.

Tel : +44(0)1256 332800

Fax : +44 (0)1256 332810

- Power source depending on the option purchased AC or DC;
- Box mounting accessories (Screws, bolts, nuts etc).

Mounting Instructions

- Mount the GSM Interface Unit on a wall adjacent to the D4140;
- Open the D4140 and identify the 25 Pin D-type connector going to the modem. It is to this connector that the supplied interface cable connects, via the ribbon cable (990-68), underneath the mounting plate. ;
- Remove PCB and mounting plate. Remove the PSTN cable from the gland and feed the supplied interface cable from inside the D4140 through the replacement gland and then into the GSM interface unit;
- Replace mounting plate and PCB;
- Remove D4140 program Eprom IC 30 (below LCD) and replace with the GSM Eprom supplied.
- Terminate the communication cable in the GSM unit to con 1 on PCB (Drawing No. 2701-148) and plug the D-type end into the ribbon cable that was removed from the modem;
- Mount the antenna on a suitable surface, note the type of antenna may require a ground plane;
- Feed the antenna cable into the GSM box through the supplied cable gland;
- If not supplied, prepare and crimp the cable with an FME male connector, and fix connect to the female FME connector on the GSM unit;
- Tighten the cable gland;
- If the GSM unit is DC, feed the power cable through the gland and terminate to Con 2 on PCB;
- Insert SIM card into the GSM unit.
- Finally apply power to the unit.

At this stage, the unit is able to talk to the masterstation and receive its configuration data.

DC Power

- Fuse 1.25A Fast
- Standby <65mA
- On-Air <300mAmps Average 2A peak pulse
- Voltage 8-28V DC

AC Power

- Fuse 0.5A Anti-surge
 - 115-230V 50/60Hz
 - 0.18 – 0.12 A
- If you are experiencing any problems with the GSM interface please contact Dynamic Logic for further details.



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