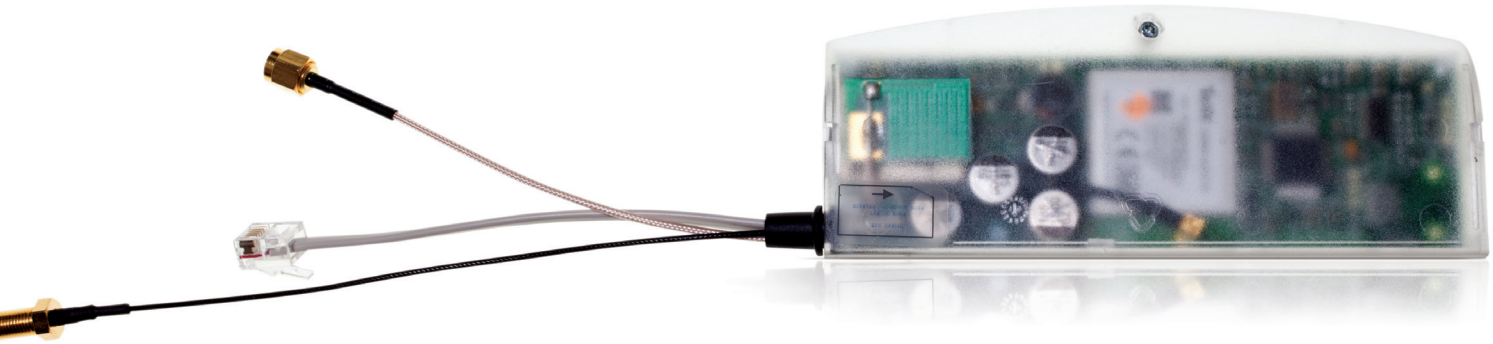
ELSTER A1120/1140 BESPOKE CSD/GPRS/SMS GSM WIRELESS MODEM

A third generation high speed telemetry modem for use on public mobile telephone networks.



EASY TO INSTALL

INTELLIGENT NETWORK WATCHDOG

REMOTE CONFIGURATION AND DIAGNOSTICS

TO MINIMISE SITE VISITS

- Modem compatible communications data rates up to 9600bps
- Error correction including V110 (for ISDN/GSM connected host)
- IP connectivity for AMR using low cost GPRS services
- SMS AMR capability with programmable read time and remote diagnostics
- Industry standard RJ12 plug interface via fly lead
- Host powered
- Standby mode with current drain of <50mW
- Typical average operating power of <500mW
- Local or remote antenna
- RS232/ RS485 multi-drop option.

The Elster A1120/1140 bespoke GPRS/GSM/SMS wireless modem is a new member of ASLH's well established and proven range of Delta Plus telemetry modems designed to complement Elster's new A1120 / 1140 meter range.

The Elster A1120/1140 bespoke GPRS/GSM/SMS wireless modem allows access to remote data via the public mobile telephone networks.

For maximum compatibility and ease of use the unit has been designed to operate like a normal modem. There is no need to understand additional GSM network specific operations. Even when operating in GPRS mode, once installed, it acts like a normal IP connection.

To reduce transmission times, the Elster A1120/1140 bespoke GPRS/GSM/SMS wireless modem can be used in V110 mode making and receiving calls to and from hosts connected using ISDN or GSM rather than standard telephone modems.

SMS AMR is also supported for NHH metering with programmable host, read interval and remote read requests all supported.

A suitable antenna can be fitted to the unit's flying lead or mounted remotely via an extension cable if required. Also internal PCB antenna option available.

Naturally, the Elster A1120/A1140 bespoke GPRS/GSM/SMS wireless modem includes an intelligent watchdog to monitor the state of the wireless modem for instances such as brown out detection to maximise high reliability of operation.

SPECIFICATION

Data rates & standards	V22 (1200bps), V22bis (2400bps), V32 (9600bps)
GPRS Protocol	Supports TCP/IP stack Class 10, and ASL high efficiency telemetry protocols (ATP)
Network compatibility	Quad band for use on GSM and GPRS (Class B 4+1) networks at 850/900/1800/1900MHz
SMS Protocol	Standard text and PDU modes supported
SIM card	Secure mounting with external access, push-push style holder
Error Correction/ Data Compression	V42, V42bis standards for modem and V110 for ISDN and GSM hosted applications
Power supply	Powered from the host data port. +6V to +14 V dc
Enclosure	Custom moulded plastic housing, size - 161x65x36mm
Weight	90g
Connectivity	A1120/A1140 compatible RJ12 fly lead for data and power to meter
Operational status LEDs	Green, Red & Yellow (see full technical user guide for operational use)
Environmental conditions	-20 to +55°C operating; –20 to +70°C storage. Humidity 0-95% non-condensing
Control of functions	By 'AT' compatible command subset
Auto dial/answer	Under 'AT' command control. Auto answer with Call Indicate
Antenna connector	SMA bulkhead connector on 160mm flying lead. (PCB antenna option available)
Remote configuration	By the use of Hyper Terminal or any suitable terminal emulation package for access
Approvals	The product conforms to : 3GPP TS 51.010-1, EN60950, R&TTE directive 99/5/EC EMC Directive 89/336/EEC & Low Voltage Directive 73/23/EEC
Options	Multidrop by optional RS232 "Elster" mode or standard RS485 interface. Optional internal printed circuit antenna available.
Additional services	For more communications options see the separate data sheets for the other communications modules that are in the Delta Plus family. ASLH is also able to offer modems with customized configurations, tailored to specific customer's requirements as well as fully custom communications products. Please enquire for full details.