

Elster AS230 Single Phase Meter 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**
- **IFF SIM READY**
- **MINIMISES 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
- 110/230 Volt AC input supplied by Host
- Standby mode with current drain of <50mW
- Typical average operating power of <500mW
- Internal PCB antenna as standard
– External Option Available



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

The Elster AS230 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 AS230 low cost smart meter.

The Elster AS230 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 AS230 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 AS230 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	85 - 265VAC from meter module connector
Enclosure	Custom moulded plastic housing, size - 161x65x36mm
Weight	90g
Connectivity	Via AS230 module connector
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	Internal PCB antenna as standard
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	SMA bulkhead connector on 160mm flying lead
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.

ASLH's policy is to upgrade and improve its products. The right is reserved to change these specifications without notice.

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