

DW 299 E INDUSTRIAL INTELLIGENT REDUNDANT COMMUNICATION FIELD UNIT WITH GPS

The DW 299 E field communication devices use high reliability and parallel redundant wireless industrial GSM/GPRS/Ethernet data communication.

FEATURES

- GSM/GPRS based communication
- Ethernet communication
- Serial field communication
- GPS based time synchronization

SPECIAL CHARACTERISTIC

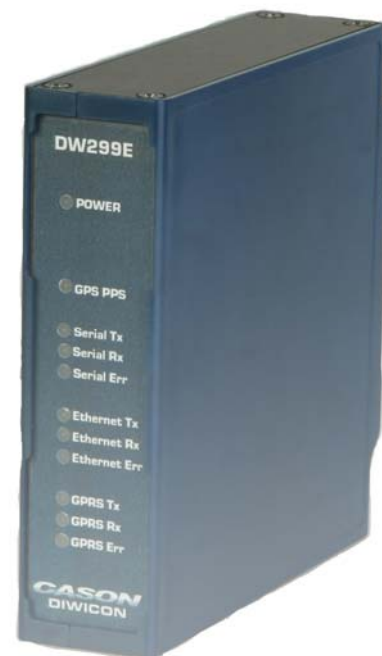
- Uses electricity energy industry device protocols
- Selectable communication (GPRS, Ethernet)
- Galvanic isolation field communication
- Communication activating output (RS-232, 422, 485)
- Externally powered (24 -110 VDC)
- Data acquisition and storage
- Diagnostic functions
- Watchdog
- Complete remote manageability and remote software update over GPRS or Ethernet
- GPS or GSM based time synchronization
- Sabotage protection

INDUSTRIAL DESIGN

- Operational temperature range -10°C to +60°C
- Protection: IP30
- TS 35 rack mounting

FUNCTIONS

- Management of read data
- Data processing
- Complete remote management



DW 299 E

APPLICATION

The DW 299 E type industrial field communication devices provide high reliability communication for wide geographic area industrial systems. The members of the family include devices that make use of serial port communication, and have an integrated GPS module.

Its most common application is data acquisition and communication in the remote measurement systems of wide-area energy provider networks.

The redundant GPRS/GSM connection ensures high availability.

FUNCTIONS

GSM communication	Redundant or single SIM card GSM/GPRS
Ethernet communication	Send information via Ethernet network to the datacenter
SMS communication	Send and receive main data and parameters
Field protocols applied	Electrical gauging standards (DLMS, VDEW 2.0, IEC 1107)
Internal memory	128 Kbytes RAM, 512 Kbytes Flash
Internal memory polling	Over GPRS or Dial-up communication
Sabotage protection	<ul style="list-style-type: none">• Open box sensor• Power cut sensor• Displacement sensor
GPS based time synchronization	< 60 ns precision
GPRS based time synchronization	< 10 ms precision
Internal temperature	Service support system

CONNECTION INTERFACE

Serial connection	4 pole Binder connection (male). The type of the connection can be changed using a jumper. Connection type can be RS-232, RS-422 and RS-485
Ethernet connection	RJ 45 connection
Mains power	24 - 110 VDC

STATUS LEDs

POWER:	Power on/off
GPS:	GPS signal
Eth Err:	CAN interface error
Eth Rx:	CAN interface data reception
Eth Tx:	CAN interface data transmission
Serial Err:	Serial interface error
Serial Rx:	Serial interface data reception
Serial Tx:	Serial interface data transmission
GPRS Err:	GSM interface error
GPRS Rx:	Serial interface data reception
GPRS Tx:	Serial interface data transmission

TECHNICAL DATA

Power supply:	24 to 110 V DC +/-10%
Power consumption:	max. 850 mW
Operational temperature range:	-10°C to +60°C
Storage temperature range:	-40°C to +120 °C
Humidity:	5 - 95% [non-condensing]
Vibration:	2.1 g - 15-150Hz ± 2.5 mm deviation
Dimensions (LxWxH):	25x122x117 mm
Reverse polarity protection:	Yes