GPS monitor

ACQUIRE GPS DATA IN STANDARD DIGITAL FORMATS

The GPS Monitor has been designed to allow coordinate monitoring in Machine-To-Machine applications.

FEATURES

- High RF sensitivity.
- 48 channels architecture.
- Output options: SDI-12, MODBUS RTU, NMEA0183.
- Multi-Constellation option: GPS + Glonass + Galileo + QZSS

APPLICATIONS

- GPS data for your PC, data logger or PLC.
- Vehicle tracking.

SPECIFICATIONS

- Autonomous positional error: < 2.5 m.
- Time to first fix:
 - Cold start < 35 s. Hot start < 1 s.
- Fix LED indicator.
- Passive and Active antenna support.
- Digital SDI-12, v1.3 compatibility.
- MODBUS RTU compatibility
- NMEA0183 compatibility.
- Passive or active antenna compatibility.
- Active antenna included.
- Operation voltage: 5...30 Volts DC
- Current consumption: 35-70 mA, depending on antenna.
- Operation temperature: 30 ~ +75 °C
- Dimensions: Height=26 mm, Depth=125 mm, Width=117 mm

SDI-12 commands

Below, a is the SDI-12 NODE address.

INFO REQUEST:

al?

ANSWER:

aSYMMETRON GPS-SDI12 v1.0 SN=......

NODE address REQUEST:

.51

ANSWER:

а

NODE address CHANGE COMMAND:

aAn!

WHERE n= 0-9, A-Z, a-z

VALUE REQUEST:

aR0!

ANSWER:

a+DATE+TIME+LATITUDE+LONGITUDE

- +SPEED+AZIMUTH+ALTITUDE
- +DOP+FIX<CR><LF>

aR1!

ANSWER:

a+DATE+TIME+LATITUDE+LONGITUDE+ DOP+FIX<CR><LF>

aR2!

ANSWER:

a+SPEED+AZIMUTH+ALTITUDE

+FIX<CR><LF>

WHERE:

DATE in DDMMYY format
TIME in HHMMSS format
LATITUDE,LONGITUDE in decimal degrees
AZIMUTH in degrees, ALTITUDE in meters
SPEED in knots

DOP in decimal (Horiz. Dilution of Precision):

- <1 Ideal 1-2 Excellent 2-5 Good 5-10 Moderate
- 10-20 Fair >20 Poor

FIX:

0 no fix1 GPS fix

2 Differential GPS fix





GPS monitor SDI-12: 002.000.0246

GPS monitor MODBUS: 002.000.0247

GPS monitor NMEA: 002.000.0248



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