

# STT Emtec's SDL 16

## Monitoring and Diagnostic System

**The Smart Datalogger, SDL 16, is one of the most flexible instruments available on the market for on-board diagnostic, monitoring and logging of data.**

The SDL 16 can be used as a stand alone monitoring system with alarms triggered by customer-defined limits. It could be connected to open collector output for customer convenience. Alarms are saved with timestamp and counted.

Users will enjoy STT Emtec customized datalogger meeting any and all needs with respect to data acquisition, analyses, and presentation, along with a specified algorithm/logic for alarm activations.

This is what we call flexibility.



### Features

- » Small size
- » Flexible data acquisition frequency
- » Remote control through GSM
- » Predefined diagnostic databus messages
- » Individual alarm settings for each channel

### Logger specification

- » Sample rates from 10ms to 24h
- » Separate and configurable on-/off triggers
- » Flexible sample methods, min/max/average/momentary/combined
- » Rotating- or log to "end-of-memory" usage
- » Predefined diagnostic databus message for easy set up

### Data

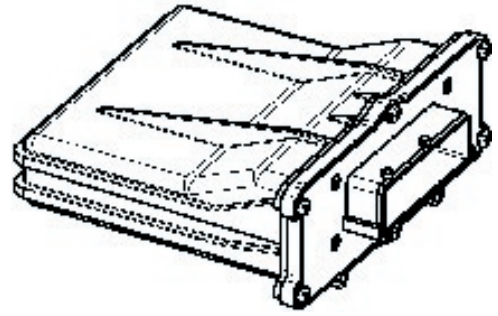
- » 4 – 16 channels
- » 127k samples
- » 10 inputs
- » 0 – 4 alarm outputs
- » 7 databuses
- » Configurable trigger
- » Alarm settings for each channel

#### Option:

- » GSM modem

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## Interface

### 4 – 16 channels

#### Analog

- » 4 Analog inputs
- » 4 Differential analog inputs
- » 2 Hi-gain differential analog inputs for K-type temp. probes or lambda sensors

#### Digital

- » 4 Digital inputs

#### Databus

- » Dual SAE-J1939
- » SAE-J1708\*
- » SAE-J1850\*
- » ISO-9141-2\*
- » ISO-14230-4\*

\*Upon request

#### Separate alarms

- » Alarm settings for each channel

## Alarm functions

- » Monitors each channel with 100 Hz, regardless of the selected sample rate
- » Alarm conditions saved with timestamp and counted
- » Latched and auto-reset of alarm conditions for each channel
- » Lo-pass filter and hysteresis setting for each channel

## Access

- » RS232
- » Windows based software for configuration and data download (Win98/NT4/2K/XP)

## Conformity

EMC and environmental tested

Data retention	>20years
Supply voltage	10 – 32VDC
Operating temperature	-40 – +85°C
EMC compliance	ISO11452
EU-type approved	72/245/EEG (95/54/EG)
ESD compliance	ISO61000
Transient voltage	ISO7637
Environmental	EN60068-2
Protection degree	IP47



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