AMG-1200-14

20 inputs acquisition module

Description

The AMG-1200-14 is a high specification analogue expansion module for use with Magneti Marelli data loggers and ECUs.

The unit has 4 differential analogue inputs with hardware gain for K-type thermocouple, 16 single-ended, 1 Pick-ups and 4 Hall effect. Data analysis is done with 10 and 12 bit A/D.

The module communicates over the CAN bus and has a sampling frequency up to 200 Hz for each of channels using a configurable software.

Main Features

- *12 Single ended @ 12 bit resolution*
- *4 Single ended @ 10 bit resolution*
- *4 Differential @ 12 bit resolution (selectable gain: 1 or 100)*
- *1 Pick-ups or Hall effect*
- *4 Hall effect*
- *2 CAN communication buses*
- *Setup via Ethernet line*

Benefits

- *Floating point data management*
- *More inputs for ECU and Data Logger*
- *High precision*
- *ID customizable (using CAN PCMCIA)*
- *Easy to use and configure*
- *Robust design and easy to install*

Typical Applications

Formula application
Professional circuit and rally applications
Race motorcycle application
Touring car

AMG-1200-14-083816413700

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Technical Characteristics

Inputs

Analogue Single-ended (@ 12 bit resolution)	12
Analogue Single-ended (@ 10 bit resolution)	4
Differential (*) (@ 12 bit resolution)	4
K-type thermocouple	2
NTC/PT1000 temperature sensor (selectable)	4
NTC internal temperature sensor	1
VR Pick-ups or Hall effect	1
Hall effect	4
“Code Load” enable pin	1
Syncro (Iso9141)	1

(*) Selectable gain: 1 or 100

Outputs

Voltage references	4

Communications

CAN line (1 Mbit/s (***))	2
Ethernet line (100 Mbit/s)	1

(***) Configurable on request

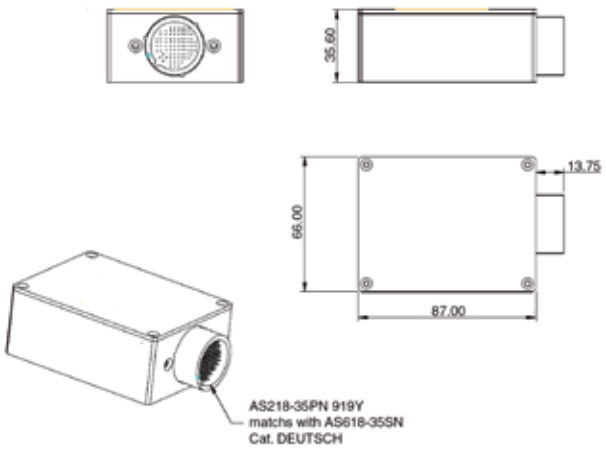
Logic Core

Microcontroller (80 MIPS RISC)	1
Flash E2PROM (microcontroller)	1 Mbyte
RAM memory (microcontroller)	48 Kbyte
RAM memory	512 Kbyte
E2PROM	4 Kbyte

Other Characteristics

Power supply	8 to 18 V
Operating temperature range (internal)	- 40 to 85 °C
Temperature range during data download	0 to 70 °C
Protection class	IP 54
Dimensions	
without connector	66 x 87 x 35.6 mm
Weight (approx.)	230 g

Dimensions



Dimensions in millimetres

Application Schematics