

SME 301

Environment monitor version 1.0

The SME 301 module is a digital data acquisition module that allows instantaneous measurement of atmospheric conditions and their transfer to a computer. It measures the following values in real time: ambient temperature, relative humidity and atmospheric pressure. Additional inputs are also available : 4 temperature inputs, 4 analog inputs and 1 frequency or speed input.

The SME 301 is an industrial unit particularly suitable for integration in an engine or chassis dynamometer. In this application SME 301 is an essential element for definition of the optimal correction to apply to measured power output.



- ⊕ **Ambient temperature :**
 - Measurement range : -10 to 50 °C
 - Accuracy : 1 °C
 - Resolution : 0.1 °C

- ⊕ **Ambient humidity :**
 - Measurement range : 26 - 100 % RH
 - Accuracy : 7 % RH
 - Resolution : 0.1 % RH

- ⊕ **Atmospheric pressure :**
 - Measurement range : 750 - 1100 mBar
 - Accuracy : 1.5 mBar
 - Resolution : 0.1 mBar

- ⊕ **Communication with an external system :**
 - RS232C serial link.
 - Rotronics communication protocole supplied

- ⊕ **Package contents :**
 - SME 301 module : dimensions 220 x 56 x 195 mm, weight : 1.4 Kg
 - Power supply 220 V - 15 VDC
 - RS232C cable for connection to computer
 - 4 connectors for analog input
 - 2 fixing rails
 - User manual

- ⊕ **Speed / frequency input :**
 - Measurement range : 0 - 500 Hz
 - Measurement range : 0 - 30000 rpm
 - Resolution : 1 rpm

- ⊕ **Temperature inputs :**
 - 4 inputs type K thermocouples
 - Measurement range : 0 - 940 °C
 - Accuracy : 1 °C
 - Resolution : 0.2 °C

- ⊕ **Analog inputs :**
 - 4 available voltage inputs
 - Measurement range : 0 - 15 V
 - Accuracy : 0.03 V
 - Resolution : 0.001 V

SME301-UKP-10-02

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