Sensors and Actuators





Sensors and Actuators

Besides Control Panels and Control Units, COMES offers its customers a wide range of Sensors and Actuators for all kind of HVAC applications.

These components can be purchased on their own or as part of a kit.



Electronic Blower Speed Regulator

PART NUMBER	P/N 12V P/N 24	1V
Analog Input Signal	Z19.01.135 Z19.0	1.142
PWM Input Signal	Z19.01.136 Z19.0	1.138

The Electronic Blower Speed Regulator is designed to be mounted on the blower, near its motor. In this way, the irradiated levels of radio frequencies will be minimized and we obtain a good heat dissipation thanks to the air coming from the blower

GENERAL PERFORMANCE, ELECTRONICAL AND ENVIRONMENTAL TEST

Nominal Power Supply Voltage: 12V or 24V

Operating Voltage Range: 10.5÷16V (for 12V) or 18÷32V (for 24V)

Rated Current: 25A (for 12V) or 15A (for 24V)

Reverse Polarity Protection

Operating Temperature Range: from -40°C to 85°C Storage Temperature Range: from -40°C to 90°C

Over Temperature Protection

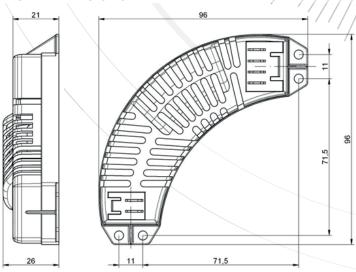
Input Signal: Analog 0÷5V or PWM 0÷5V (according to the

specific version)

Output Signal: PWM with duty-cycle variable Diagnostic Signal: Motor voltage feedback

Overload Current Protection Motor Circuit Protection

Electromagnetic Compatibility according to UNECE Regulation No.10





DC Motor Water Valve

PART NUMBER P/N 12V P/N 24V

26.01.006 26.01.007

TECHNICAL CHARACTERISTICS

Working Temperature: from -30°C to +80°C

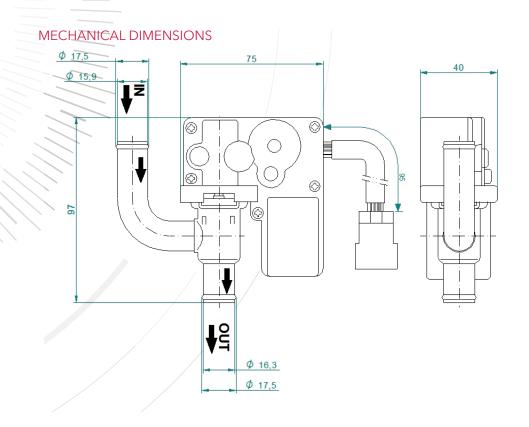
Working Voltage: 12VDC ± 30% (for 26.01.006) or 18VDC ~ 28 VDC (for 26.01.007)

Rated Voltage: 12VDC (for 26.01.006) or 24VDC (for 26.01.007)

Lock Current: 220mA MAX (for 26.01.006 at 12VDC) or 300mA MAX (for 26.01.007 at 24VDC)

Operating Time of the Valve (from the fully closed position to the open position):

10 sec. max





Solenoid Water Valve 12V

PART NUMBER 26.01.001

For 24V systems, an adaptor is available upon request (P/N 23.01.019).

TECHNICAL CHARACTERISTICS

Inlet valve opening: at 0.03 bar
Full opening: at 0.07 bar
Power supply voltage: 12 VDC
Continuous duty: 100%

Operating temperature range: from -20°C to +100°C

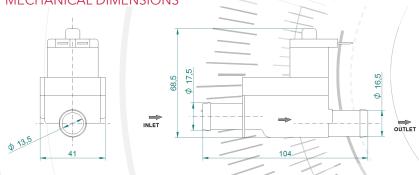
Power absorption: approx. 3 W
Capacity at 0.5 bar dynamical: >1800 L/H
Maximum pressure of operation: 1 bar static
Maximum internal leakage: 1.2 l/h
Maximum frequency: 50 Hz

Horizontal assembling

Maximum inclination: $\pm 10^{\circ}$

All engine cooling liquids with anti-freeze, glycols, etc.

MECHANICAL DIMENSIONS





Internal Temperature Sensor

PART NUMBER

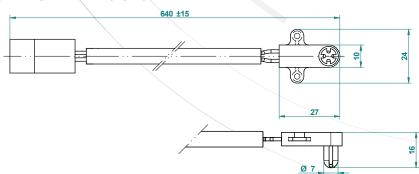
24.01.020

TECHNICAL CHARACTERISTICS

Sensor Type: NTC Resistance Value at 25° C: $10K\Omega$

Working Temperature Range: from -40°C to +85°C

Available upon request kit with double-sided tape and screws for fitting.





PART NUMBER 24.01.017

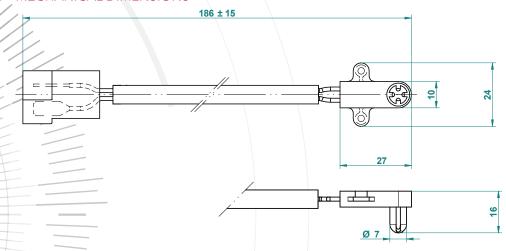
TECHNICAL CHARACTERISTICS

Sensor Type: NTC Resistance Value at 25°C: $10K\Omega$

Working Temperature Range: from -40°C to +85°C

Available upon request kit with double-sided tape and screws for fitting.

MECHANICAL DIMENSIONS



External Temperature Sensor

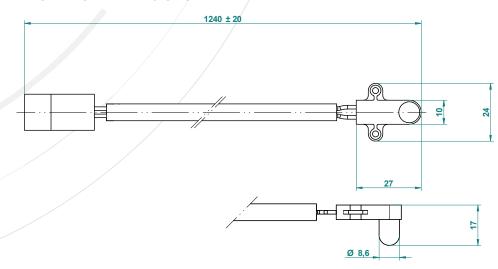
PART NUMBER 24.01.019

TECHNICAL CHARACTERISTICS

Sensor Type: NTC Resistance Value at 25° C: $10K\Omega$

Working Temperature Range: / from -40°C to +85°C

Available upon request kit with double-sided tape and screws for fitting.







Internal Temperature Sensor

PART NUMBER 600 MM 160 MM

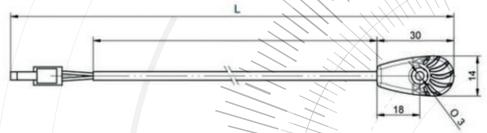
24.01.041 24.01.042

TECHNICAL CHARACTERISTICS

Sensor Type: NTC Resistance Value at 25° C: $10K\Omega$

Working Temperature Range: from -40°C to +85°C

MECHANICAL DIMENSIONS



P/N 24.01.041

Cable length (before assembling)= $600 \pm 25 \text{ mm}$

 $L=620 \pm 25 \text{ mm}$

P/N 24.01.042

Cable length (before assembling)= $160 \pm 25 \text{ mm}$

 $L=180 \pm 25 \text{ mm}$

Anti-Icing Temperature Sensor Kit

PART NUMBER

61.01.279

TECHNICAL CHARACTERISTICS

Sensor Type: NTC Resistance Value at 25° C: $5K\Omega$

Working Temperature Range: from -40°C to +85°C

