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# EasyNO<sub>X</sub> – NO<sub>X</sub> Monitoring

P/N 63.05.001-01/-02. P/N 63.05.002-01/-02

#### EasyNO<sub>x</sub> Control Unit

#### **Dimensions**

Length x width x height 305.6 mm x 230 mm x 86 mm (12.04" x 9.06" x 3.39")

#### **Mechanical Data**

• Weight 3.5 kg (7.8 lbs)

• IP protection rating IP 66

#### **Climatic Environmental Conditions**

Permissible temperature range during operation
O °C to +50 °C (+32 °F to +122 °F)
Permissible temperature range for storage
Permissible relative humidity during operation
5 % to 90 % without condensation with closed housing

• Power consumption in measuring operation Max. 100 W

Power supply
16 V DC to 32 V DC

Nominal voltage
Required current in measuring operation
Max. 4.7 A

#### Display

Screen diagonal
Resolution
800 x 480 pixels

#### Communication

**Electrical Data** 

Interfaces
USB, 2x CAN (1x CANopen®, 1x J1939)

#### CAN Bus/NO<sub>x</sub> Sensor Module P/N 63.05.015

#### **Dimensions**

Length x width mounting plate
206.5 mm x 150 mm (8.13" x 5.91")

• Height mounting plate with CAN bus module 82 mm (3.23")

### **Mechanical Data**

• Weight 1.52 kg (3.4 lbs)

• IP protection rating IP 66 with mating plug connected to evaluation unit of NO<sub>x</sub> sensor and

sensing element mounted in suitable welding boss from MOTORTECH

#### **Climatic Environmental Conditions**

 $\bullet$  Permissible temperature range during operation  $\,$  –40 °C to +85 °C (–40 °F to +185 °F)

Permissible temperature range for storage
-40 °C to +75 °C (-40 °F to +167 °F)

• Permissible relative humidity during operation 5 % to 90 % without condensation

with closed housing









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#### **CAN Bus Module**

#### Thermocouple Inputs

• Quantity 2

• Supported thermocouple type Type K, Class 1 (IEC 584)

With cold junction compensation

• Measuring range  $-200 \, ^{\circ}\text{C}$  to +1,200  $^{\circ}\text{C}$ 

(-328 °F to +2,192 °F)

Measurement resolution 0.1 K
Measuring accuracy ± 0.1 K

#### **Analog Inputs**

Quantity 2 (0-22 mA)
Current range for measured values 4 mA to 20 mA
Measurement resolution 0.001 mA
Measuring accuracy 0.01 % FS

#### NO<sub>x</sub> Sensor P/N 56.03.003

#### **Dimensions**

Length of probe
Length of sensing element
Length of connection cable
24 mm (0.95")
83.3 mm (3.28")
980 mm (38.58")

#### **Climatic Environmental Conditions**

• Exhaust gas temperature range -40 °C to +850 °C (-40 °F to +1,562 °F)

• Operating pressure range 600 mbar abs to 1,500 mbar abs

#### **Measuring Ranges**

• Nitrogen oxide (NO<sub>X</sub>) 0 ppm to 3,012 ppm

• Measuring accuracy nitric oxide (NO)

Measurement	Accuracy new at O₂ ≥ 1 vol%	Accuracy aged at O₂ ≥ 1 vol%
0 ppm	± 8 ppm abs	± 10 ppm abs
90 ppm	± 10 ppm abs	± 12 ppm abs
1,500 ppm	± 8 % rel	± 10 % rel

Cross sensitivity NO<sub>X</sub> measurement Ammonia (NH<sub>3</sub>) typ. 110 %
Sensitivity NO<sub>X</sub> measurement Nitrogen dioxide (NO<sub>2</sub>) typ. 85 %
Oxygen (O<sub>2</sub>) 0 % to 20.95 %

• Measuring accuracy oxygen (O2)

Measurement	Composition	Accuracy new	Accuracy aged
0 %	N <sub>2</sub> with 1 % H <sub>2</sub> O	± 0.2 % abs	± 0.3 % abs
8.29 %	N <sub>2</sub> with 0 % H <sub>2</sub> O	± 6 % rel	± 8 % rel
12 %	N <sub>2</sub> with 0 % H <sub>2</sub> O	± 6 % rel	± 8 % rel
20.95 %	N <sub>2</sub> with 0 % H <sub>2</sub> O	± 6 % rel	± 8 % rel

Exhaust gas velocity
NO<sub>2</sub> correction factor
10 m/s to 100 m/s
0.85 (set ex works)





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#### **Mechanical Data**

• IP protection rating IP 6K9K with mating plug connected

to evaluation unit and sensing element mounted in suitable welding

boss from MOTORTECH

• Service life 8,000 operating hours with ambient

temperature max. +90 °C (+194 °F) at

evaluation unit

### I/O Communication Module BPlus (EXTENDED Package)

#### **Dimensions**

• Length x width x height 100 mm x 97 mm x 48 mm

(3.94" x 3.82" x 1.89")

**Mechanical Data** 

• Weight without harnesses 320 g (0.71 lbs)

• IP protection rating IP 20

**Climatic Environmental Conditions** 

• Permissible temperature range -40 °C to +85 °C (-40 °F to +185 °F)

• Permissible relative humidity Max. 85 % without condensation

**Electrical Data** 

• Power consumption 0.72 W (outputs unloaded)

Power supply
8 V DC to 32 V DC

Nominal voltage
24 V DC

• Required current 30 mA at 24 V (outputs unloaded)

**Inputs and Outputs** 

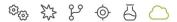
Binary inputsBinary outputs3

Binary outputs 3

Analog inputs 1 (4-20 mA)
Analog outputs 1 (4-20 mA)

Communication

• Interface CAN (CANopen®)

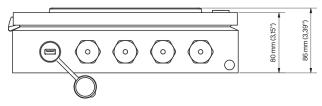


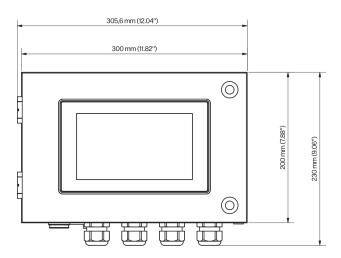


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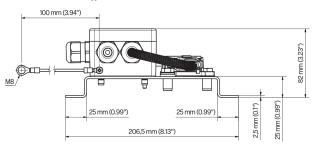
### **Overview Drawings**

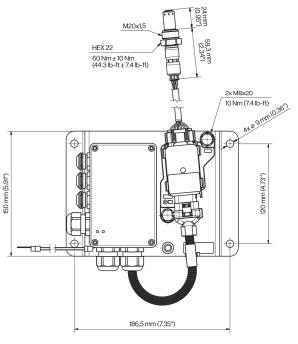
#### EasyNO<sub>x</sub> Control Unit





#### CAN Bus/NO<sub>X</sub> Sensor Module P/N 63.05.015





#### I/O Communication Module BPlus (EXTENDED Package)

