

**Mechanical Ambient  
Temperature  
Controller  
MATC411-EX...**



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**RESERVATION:**

Technical data subject to change without notice. Changes, errors, and misprints may not be used as a basis for any claim for damages.

## MANUFACTURER

DIRAC INDUSTRIES S.R.O.  
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28002, KOLÍN - SENDRAŽICE

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## APPLICATION

The Mechanical Ambient Temperature Controller is used for ambient temperature controlling/monitoring. The thermostat can handle a switching capacity of up to 16A directly or gives a potential-free signal for under- or over-temperature alert to a control station.

The Mechanical Ambient Temperature Controller is fitted in a M20x1,5 cable gland (plastic / metal) and moulded with a high-temperature resistant and creepage resistant epoxy. It can be attached in a corresponding tapped hole or through-hole with counter nut. Alternatively the thermostat can be attached on a fitting panel (not included). The power cable must be connected in an Ex e approved junction box.

The marking of the Mechanical Ambient Temperature Controller is laser-engraved permanently on the fitting body.

## APPROVAL AND MARKING

Manufacturer: DIRAC Industries s.r.o.  
Part – number: MATC411...Ex  
Certifications: EPS 23 ATEX 1 232 X  
Marking:  II 2G Ex mb IIC T4 Gb  
 II 2D Ex tb IIIC T100°C Db IP68

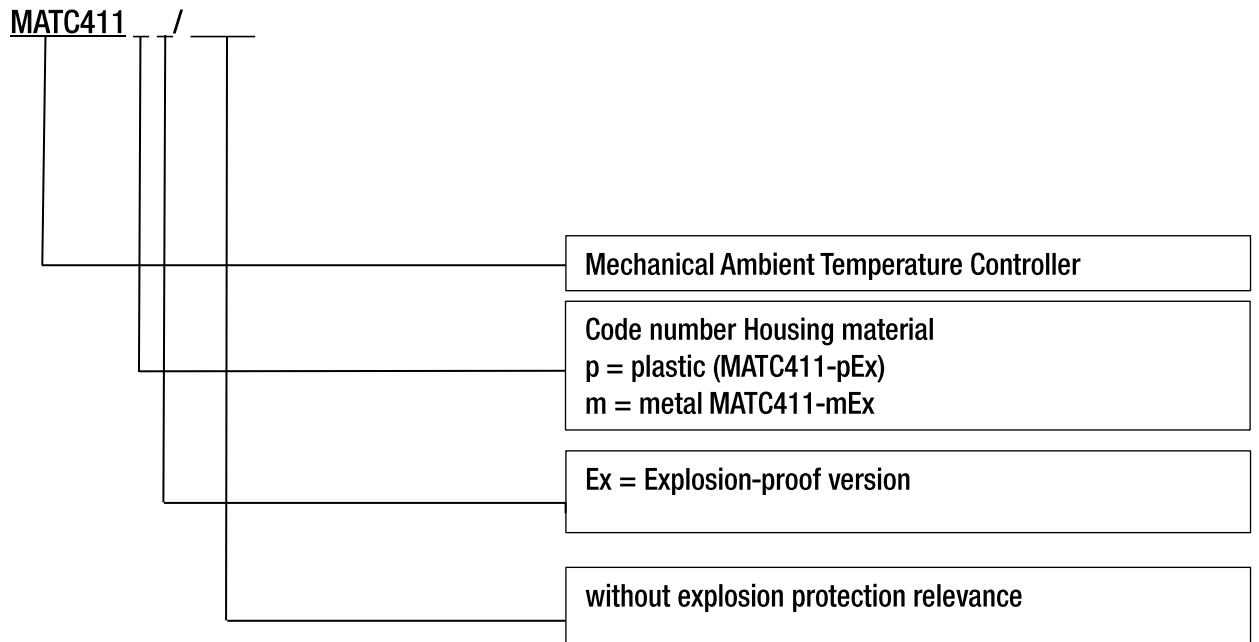


CE: 1026

## TECHNICAL DATA

Rated voltage:	Umax. 250 V/AC 12V/DC
Rated current:	I <sub>max.</sub> 16A
Switching points:	ON...°C / OFF...°C (different temperature ranges available)
Ambient temperature-range:	-60°C up to +40°C (T6) -60°C up to +55°C (T5) -60°C up to +110°C (T4)
Protection Type:	IP 68 IEC 60529
Supply cable:	3x1,5mm <sup>2</sup>
Connection thread:	M20x1,5

**TYPE CODE**



## **INSTRUCTION FOR INSTALLATION AND OPERATION**

The connection of the supply cable must be made in terminal boxes that correspond to a standardized type of protection according to DIN EN 60079-0. The connection area must be accomplished in accordance with DIN EN 60079-0, paragraph 14.2, 14.4. In Ex e terminal boxes protection class of at least IP 54 must be ensured. The Mechanical Ambient Temperature Controller must be fused with a 16A circuit breaker C-characteristic. The Mechanical Ambient Temperature Controller complies with the following standards and regulations:

Directive 2014/30/EU

Directive 2014/34/EU

Directive 2014/35/EU

EN IEC 60079-0:2018

EN 60079-18:2015

EN 60079-31:2014

## **MAINTENANCE**

As part of the servicing and maintenance of the equipment into which the Mechanical Ambient Temperature Controller is installed, this must be included in the test!

Depending on the ambient and operating conditions is a regular check on the state carry out. Damaged Mechanical Ambient Temperature Controller are to be replaced in any case.

## **SPECIAL CONDITIONS**

The cable tail must be installed outside the hazardous area, or be connected to a terminal box with suitable protection.

The circuit of the Mechanical Ambient Temperature Controller must be protected by a C-Characteristic circuit breaker to the rated current of 16A.

## **SAFETY INSTRUCTIONS**

The explosion protection is only guaranteed in original condition. Changes to the Mechanical Ambient Temperature Controller that affect the explosion protection, are not permitted.

Explosion protection is not or no longer guaranteed if:

- the potting is damaged, torn or chipped.
- the cable gland or the thread is damaged or torn.
- the gasket is damaged.
- the insulation of the supply cable is damaged.

**DECLARATION OF CONFORMITY**

DIRAC INDUSTRIES S.R.O., K AUTOMOBILCE 585, 28002, KOLÍN - SENDRAŽICE

**DECLARATION OF CONFORMITY**

**THIS DECLARATION OF CONFORMITY IS ISSUED BY THE MANUFACTURER:**

Business name: DIRAC Industries s.r.o.  
 Seat: K Automobilce 585, 28002, Kolín – Sendražice  
 CIN: 27956628  
 VATIN: CZ27956628

**FOR THE PRODUCTS:**  
 Mechanical Ambient Temperature  
 Controller.

Notified body: Bureau Veritas

**TYPE DESIGNATION:**  
 MATC411...Ex

**THE PRODUCT CORRESPONDS TO:**

EN IEC 60079-0:2018	EN 60079-18:2015	EN 60079-31:2014
FTZU 23 ATEX Q 001		

**IT COMPLIES WITH THE FOLLOWING GUIDELINES:**

Directive 2014/34/EU  
 Directive 2014/35/EU  
 Directive 2011/30/EU

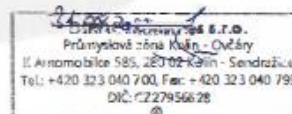
**PLACE OF ISSUE:**

DIRAC Industries s.r.o.  
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**MANUFACTURER'S REPRESENTATIVE:**

Martin Šimůnek  
 Quality manager

**STAMP, DATE, SIGNATURE**







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