

TC MOBILE I/O X200-4G - SMS relay



1038567

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SMS relay and signaling module, European version, monitor analog and digital values via cellular network, switch relay outputs remotely, communication via SMS or cellular network data connection (e-mail transmission, app), supply voltage 10 V ... 60 V DC

Product description

The TC MOBILE I/O X200-4G compact electronic signaling system is the successor to the TC MOBILE I/O X200 (2903805) and PSI-MODEM-SMS-RELAY/6ADI/4DO/DC (2313520) SMS relays. The electronic signaling system monitors digital and analog values via the cellular network. It also switches relay outputs remotely. The device offers numerous helpful software functions, such as SMS message chain, SMS in the event of a voltage drop, sending logbooks via e-mail, and different user roles. A USB connection to a computer with a web browser is all that is needed for configuration.

Your advantages

- Future-proof 4G technology (LTE CAT1), simultaneous use of well-established 2G networks (GSM, GPRS, EDGE)
- Alerts via SMS in the field and, for example, via e-mail in the control room
- Message chain for sending an alert to the relevant service technician
- Alarm generation on voltage failure via SMS
- Free switching via phone call
- Cost control for prepaid cards
- Remote commands to avoid on-site servicing: switching, configuration commands, and logbook transmission
- Compact design also for domestic installations (4 HP, DIN 43880)
- Mounting on DIN rail or on the wall

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Technical data

Notes

Note on application

Note on application	Only for industrial use
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Product properties

Product type	Signaling system
Application	I/O
MTTF	674 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	324 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	130 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)

Electrical properties

Maximum power dissipation for nominal condition	1.2 W
Mains type	Cellular communication

Supply

Supply voltage range	10 V DC ... 60 V DC
Typical current consumption	50 mA (24 V DC)
Max. current consumption	80 mA

Input data

Digital

Description of the input	Digital input
Number of inputs	4
Switching threshold "0" signal in reference to U_N	≤ 0.3
Switching threshold "1" signal in reference to U_N	≥ 0.7

Analog

Description of the input	Analog input
Number of inputs	2
Input signal	Current or voltage
Resolution	15 bit
Input impedance	600 k Ω (Voltage inputs)
	50 Ω (Current inputs)
Voltage input signal	0 V DC ... 60 V DC
Current input signal	0 mA ... 20 mA
	4 mA ... 20 mA (configurable)
Precision	± 0.1 %

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Output data

Switching

Output name	Relay output
Number of outputs	4
Contact switching type	N/O contact
Minimum switching voltage	100 mV
Maximum switching voltage	60 V DC 30 V AC
Limiting continuous current	6 A
Switching capacity	100 W (Power Source PS2, $P_{out} \leq 100$ W)
Electrical service life	30000 cycles

Connection data

Supply

Connection method	Screw connection
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² ... 2.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 2.5 mm ²
Single conductor/terminal point, rigid	0.2 mm ² ... 2.5 mm ²
Single-wire/terminal point, flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section, flexible [AWG]	24 ... 14
Stripping length	6.50 mm
Tightening torque	0.5 Nm ... 0.6 Nm (5-7 lbs-in, screw terminal blocks)

Interfaces

Data: USB 2.0

Connection method	Mini-USB type B, 5-pos.
Transmission length	≤ 3 m (only for configuration and diagnostics)

Wireless

Interface description	GSM / GPRS / EDGE / LTE (FDD)
Frequency range	800 MHz (LTE B20) 1800 MHz (LTE B3) 2600 MHz (LTE B7) 900 MHz (2 W (EGSM)) 1800 MHz (1 W (EGSM))
Number	1
Connection method	SMA (female)
GPRS	Multislot Class 33
EDGE	Multislot Class 33
LTE	CAT1

Dimensions

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Width	72 mm
Height	90 mm
Depth	62 mm

Material specifications

Color (Upper housing part)	light gray (RAL 7035)
Color (Lower housing part)	black (RAL 9005)
Material (Housing)	Polycarbonate

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (SMS mode only, note the derating information in the technical documentation for data connection)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	2000 m
Permissible humidity (operation)	0 % ... 95 %

Approvals

CE

Certificate	CE-compliant
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Wireless approval, Europe

Note	RED 2014/53/EU
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EMC data

Electromagnetic compatibility	Conformance with RED Directive 2014/53/EU
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Electrostatic discharge

Standards/regulations	EN 61000-4-2
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Electrostatic discharge

Contact discharge	± 6 kV
Discharge in air	± 8 kV
Indirect discharge	± 6 kV
Comments	Criterion B

Electromagnetic HF field

Standards/regulations	EN 61000-4-3
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Electromagnetic HF field

Frequency range	26 MHz ... 6 GHz
Field intensity	10 V/m
Comments	Criterion A

Fast transients (burst)

Standards/regulations	EN 61000-4-4
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Fast transients (burst)

Input	± 2 kV (Unshielded supply line)
Signal	± 2 kV (Shielded signal line) ± 2 kV (Analog I/O cables, unshielded)
Comments	Criterion B

Surge current load (surge)

Standards/regulations	EN 61000-4-5
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Surge current load (surge)

Input	± 0.5 kV (Symmetrical, unshielded supply line) ± 0.5 kV (Asymmetrical, unshielded supply line)
Signal	± 1 kV (Data line, asymmetrical)
Comments	Criterion B

Conducted interference

Standards/regulations	EN 61000-4-6
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Conducted interference

Frequency range	0.15 MHz ... 80 MHz
Comments	Criterion A
Voltage	10 V

Emitted interference

Emitted radio interference in acc. with EN 55011	Class B, area of application: Industry and residential
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Criteria

Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

Standards and regulations

Standards/regulations	EN 50360
Standards/regulations	EN 50121-4

Mounting

Mounting type	DIN rail mounting Panel mounting
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