



PolyGard®2

# IOT-Gateway

The IOT Gateway is a rugged, industrial LTE dual SIM router with WiFi, 4 x Ethernet ports, I / O, RS232 and RS485.

The device makes it possible to use the existing infrastructure for a location-independent Internet communication via mobile / Ethernet / WiFi.

## APPLICATION

- Connecting the MSR gas alarm devices via VPN to the MSR-Cloud-Gateway
- ModBus-TCP/IP coupler
- Alarm SMS module



## FEATURES

- Software and hardware watchdog
- Long lifetime, MTBF time: 230000 hours
- LED indication for signal strength / LAN / WAN / Power
- Remote configuration / FW upgrade

## SPECIFICATIONS

### Electrical

Power supply	9 – 30 VDC, reverse polarity protection
Power consumption	300 mA @24 V DC (max. 7 VA)
Digital input (2)	0 - 3 V digital input 0 - 30 V digital input, galvanically isolated
Analog input (1)	0 - 24 V
Digital output (1)	30 V, 250 mA Open-Collector
Relay output (1)	40 V, 4 A, single-pole, NOC

### Mobile radio communication

4G/3G/2G	150 Mbps / 42 Mbps / 236.8 kbps
Sim Card (2)	Mini-Sim Card, Dual-Sim, Fail-Over

### Wireless (2)

Modus	IEEE 802.11 b/g/n Access Point, Station
WiFi security	WPA2, TLS, TTLS, AES-CCMP, TKIP

### Ethernet

WAN (1)	10/100 Mbps
LAN (3)	10/100 Mbps

### Serial interface

RS232	DB9, with RTS, CTS
RS485	Full / Half-Duplex, 4/2-Draht, 300 - 115200 Baud rate

### Environmental conditions

Temperature range	-40 °C to +75 °C (-40 °F to 167 °F)
Humidity range	10 – 90 % RH, non-condensing
Storage	Unlimited

### Physical

Housing material	Polycarbonate
Housing colour	Light gray
Dimensions housing (W x H x D)	182 x 180 x 90 mm (7.17 x 7.09 x 3.54 in.)
Installation	Wall (surface) mounting
Protection class	IP 65
Weight	700 g (1.54 lb.)

### Warranty

12 months



MSR-Electronic GmbH ::: Würdinger Str. 27 & 27A ::: 94060 Pocking ::: Germany

Specifications subject to change without notice  
Up-to-date data sheets and user manuals can be found in the download area of [www.msr-24.com](http://www.msr-24.com).  
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## ORDER INFORMATION

<b>IOT-GW-</b>	<b>X-</b>	<b>X</b>
		<b>CONFIGURATION</b>
		0 No configuration
		1 VPN-MSR-Gateway <sup>1</sup> (Ethernet / WIFI / Mobile <sup>2</sup> )
		2 ModBus-TCP/IP coupler
		3 Alarm SMS module <sup>1</sup>
		<b>MOBILE NETWORK</b>
	<b>H</b>	Europe, Middle East, Africa, Korea, Thailand, India
	<b>J</b>	North America (AT&T, T-Mobile)
	<b>K</b>	North America (Verizon) (only on request)
	<b>L</b>	Australia (Telstra)
	<b>M</b>	South America, Australia, New Zealand, Taiwan

<sup>1</sup> VPN transmission requires NTP Port 123 & UDP Port 1194 outgoings to be open in Firewall settings.

<sup>2</sup> For communication via mobile radio you'll need a SIM Card.

## EXAMPLE

Standard PolyGard®2 IOT Gateway in connection with MSR Cloud PolyGard®2 Control Center

**Ordering number: IOT-GW-H-1**

## DIRECTIVES

Immunity	EN 55024:2010
Radio disturbance	EN 55022:2010
ESD	EN 301 489 V2.1.1 (EN61000-4-2:2009)
RF	EN 301 489 V2.1.1 (EN 61000-4-3:2006, A1:2008 und A2:2010)
EFT	EN 301 489 V2.1.1 (EN 61000-4-4:2013)
Surge protection	EN 301 489 V2.1.1 (EN 61000-4-5:2014)
RC	EN 301 489 V2.1.1 (EN 61000-4-6:2014)
Antishock/Drop/Vibration	IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013, EN 60950-1:2006 + A1:2010 + A2:2013 + A11:2009 +A12:2011
Impact strength	IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013, EN 60950-1:2006 + A1:2010 + A2:2013 + A11:2009 +A12:2011



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