



# ITalks MCS 1608 sensor node serie

Datasheet

## Integrating sensor functionality for various applications

The ITalks MCS 1608 series are developed in order to integrate sensor functionality for various applications. It communicates with the widely available Low Power Wide Area Network (LPWAN) LoRaWAN and/or Sigfox.

The ITalks MCS 1608 is ready to use and enables you to quickly be operational with your application.



### SEVERAL SENSORS AND OPTIONS

Depending on the version, the ITalks MCS 1608 has already several integrated sensors, GPS or the possibility to connect external sensors and actuators. Several versions can be supplied: full, tracer, i/o, pulse, external temperature, external dual temperature, analogue, SDI12, beacon and rail.

In the table on the next page you find specifications of what each version offers you.



### READY-TO-USE STARTER PACKAGES

MCS provides complete solutions: the sensor including gateway, connectivity and IoT-platform. Choose from several ITalks starter packages, for example non-powered asset tracing, smart energy, smart environment, smart building etc. You can quickly start a Proof of Concept and experience the application in your client specific situation.

Please contact our sales team to talk about your business case, our starter packages and extra options.

### HIGHLIGHTS

- Sensor device for long range LoRaWAN and/or Sigfox
- Battery powered (standard 8.800mAh)
- Protection class IP67 device for outdoor use
- Operating range -20 till +85 °C
- Possibility to program own software applications, tailor-made customer solutions
- Many accessories available for tailor made applications and connecting an external antenna.



**Dual mode: LoraWAN and Sigfox can both be activated.**

### ITALKS STARTER PACKAGES FOR MANY INDUSTRIES



# Applicable for several industries

		Full	Tracer	i/o	Pulse	Ext. temp	Ext. dual-temp.	Analogue	SDI12	Beacon	Rail
Art.nr.	LoRa	110517	110517T	110517R	P110517R-PULSE	P110517R-TEMP	P110517R-DTEMP	P110517R-AIK	112008	112009	112010
Art.nr.	Sigfox	110517FS	110517TS	110517RS	P110517RS-Pulse	P110517RS-TEMP	P110517RS-DTEMP	P110517RS-AIK	112008S		112010S
	<b>Branche, application</b>	General purpose	Asset tracking	Smart industry	Smart energy	Smart HVAC	Smart HVAC	Smart Industry	Smart environment	Indoor localisation	Rail
	<b>Temperature sensor</b>	✓									✓
	<b>Humidity sensor</b>	✓									✓
	<b>Barometer</b>	✓									✓
	<b>GPS receiver</b>	✓	✓								✓
	<b>Accelerometer</b>	✓	✓								✓
	<b>Magnetometer</b>	✓									✓
	<b>Gauss-detector / Hall sensor</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	<b>Connection 2x digital i/o</b>	✓		✓							✓
	<b>Connection 1Wire sensor</b>	✓	✓	✓							✓
	<b>2x analogue input</b>	✓		✓							✓
	<b>Battery*</b>	8.800 mAh	8.800 mAh	8.800 mAh	8.800 mAh	8.800 mAh	8.800 mAh	8.800 mAh	8.800 mAh	8.800 mAh	8.800 mAh
	L x B x H mm	81 x 74 x 46	81 x 74 x 46	81 x 74 x 46	81 x 74 x 46	81 x 74 x 46	81 x 74 x 46	81 x 74 x 46	81 x 74 x 46	81 x 74 x 46	81 x 74 x 46

110530-temp1	Ext. temperature sensor 1m	Optional	Optional	Optional		✓	✓✓				✓
110530-temp3	Ext. temperature sensor 3m	Optional	Optional	Optional		Optional	Optional				Optional
110530-AIK	Analogue input cable 2,5m	Optional		Optional				✓			Optional
110530-DIK	Digital input cable 2,5m	Optional		Optional	✓						Optional
	SDI12 interface	Optional		Optional					✓		

\* also available with other batteries