



IO-Link



io-key – the key to the industrial IoT



IO-Link accessories



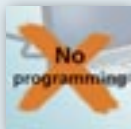
Pre-configured, no SIM card required

Web-based dashboard for visualisation and analysis of cloud data

Email or text message when limit values are exceeded

IO-Link sensor data is sent directly via mobile network to the cloud

Two IO-Link sensors can be connected



Cloud connection for all IO-Link sensors

The io-key recognises up to two connected IO-Link sensors and sends their process values automatically via GSM mobile network to the cloud where the data is stored. The user can visualise and analyse the data via a web-based dashboard.

Alarms are sent as a text message or email











A few mouse clicks suffice to set limit values in the dashboard, so that the plant operator will be warned by email or text message when values are exceeded or not reached.

Export

The data from all sensors can be summarised and exported automatically as a report at any time.



Accessories

Type	Description	Order no.
	Plug-in power supply, 90...264 V AC / 24 V DC	E80120
	Plug-in power supply with interchangeable adapter, 100...240 V AC / 24 V DC	E80121
	Level sensor 0.1 m cable, M12 connector, 5 pins	KQ1001
	Vibration diagnostics sensor for industrial machines	VVB001
	Signal converter for PT100/PT1000 temperature sensors to IO-Link	TP9237
	Smart valve sensor M12 connector	MVQ101
	IO-Link input module, 6 x 2 inputs; M12 connector; IP 67	AL2340
	Thermal compressed air meter, G 1/4 0.05...15 Nm ³ /h	SD5500
	Evaluation system and display for analogue signals	DP2200
Connection technology		
	Connection cable, M12, 1 m, black, PUR cable	EVC042
	Connection cable, M12, 2 m, black, PUR cable	EVC043
	Y connection cable, M12, 0,3 m, black, PUR cable	EVC614

Products

Description	Order no.	
	Europe	global
io-key version		
io-key, IIoT gateway for 2 IO-Link sensors	AIK001	AIK050
Transmission interval XS 1 x per day	AIS910	AIS950
Transmission interval S 1 x per hour	AIS911	AIS951
Transmission interval M 1 x per minute	AIS912	AIS952
Transmission interval L every 10 seconds	AIS913	AIS953
Edge alarm function (up to 1000 alarms/month)	AIS990	
SMS notification (up to 10 SMS)	AIS991	

From sensor to IIoT

Sensor information can be collected directly and sent to the cloud without requiring any connection to a controller, PC or company network.

Apart from voltage supply and GSM network availability, the io-key requires no infrastructure.

ifm offers two versions of the io-key with different radio modules and data tariffs for European and global mobile networks.

As all ifm products, the io-key is a sturdy unit and has a high protection rating of IP 65. Hence, it can be used in harsh industrial environments.

Application examples

The io-key is suited for all applications that do not primarily require permanent transmission of measured values in real-time.

The io-key can even be used to monitor and evaluate remote parts of the plant that are not connected to the company infrastructure.

For example:

- Tank monitoring using a capacitive continuous level sensor type KQ10xx
- Measurement of compressed air consumption and leakage monitoring using an compressed air meter type SDxxxx
- Fan monitoring using a vibration diagnostics sensor type VVBxxx
- Valve monitoring using a valve sensor type MVQxxx