

# FFblue

## Direct Access to FOUNDATION™ Fieldbus H1 Networks Via Bluetooth

FFblue offers a direct access to FOUNDATION Fieldbus H1 segments and connected field devices using the Bluetooth interface and a proprietary API. It does not interfere with any running process control system.



### Quick and Easy Temporary Access to FOUNDATION Fieldbus H1 Networks

- Direct access to FOUNDATION Fieldbus H1 networks from any notebook or PC via USB interface
- Ideal for shop floor usage due to small form factor and portability
- Certified for use in Ex zone 2 and use with intrinsically safe devices
- Temporary attachment to fieldbus and interaction with individual field devices
- Cost-effective and interference-free access to running plants, eliminating need to install expensive stationary equipment

### Full Parameterization, Configuration and Monitoring Functionality

- Ideally suited as mobile device for tasks like pre-configuration and firmware updates
- Capable of configuring small FOUNDATION Fieldbus H1 networks and monitoring individual field devices, Function Blocks and Function Block parameters when integrated into appropriate software package
- Combination of functionality associated with different products in only one device
- Tight integration into individual configuration and device parameterization systems via API
- Ideal companion for everyday shop floor usage

### Wireless Access Allowing Long-Distance Communication

- Access to FOUNDATION Fieldbus H1 network via a distance of up to 10 m without requiring cable installation
- Mobile and temporary access to field devices
- Connection with field devices even via barriers like walls
- Implementation of additional applications including moving or rotating parts

## Technical Data

<b>Hardware</b>	Processor	Renesas M16
	RAM	470 KB
	Flash	384 KB
<b>Software</b>	FOUNDATION Fieldbus Functionality	<ul style="list-style-type: none"><li>Automatic detection of LAS or "Visitor" role</li><li>Acyclic read/write access to FOUNDATION Fieldbus H1 field device parameters</li><li>Acyclic read-only access to process values of FOUNDATION Fieldbus H1 field devices</li></ul>
<b>Fieldbus Interface</b>	Supported Protocol	FOUNDATION Fieldbus H1
	Interface	FOUNDATION Fieldbus H1 network
	Connector	3 pin screw connector, galvanically isolated
	Transfer Rate	31,25 KBit/s
	LED Indication	FOUNDATION Fieldbus H1 power, USB status, traffic
<b>Bluetooth Interface</b>	Supported Protocol	Bluetooth V2.0 Class 2, suitable to be connected to a FISCO System (EN60079-27)
	Module	FCC ID QOQWT12
	Range	Up to 10 m (30 ft)
	Bluetooth Rates	Up to 115 Kbit/s
	Countries of Radio Certification	EU/EFTA: AT, BE, BG, CH, CY, CZ, DE, DK, ES, FI, FR, GB, GR, HU, IS, IT, LT, LU, MT, NL, NO, PL, RO, SE, SI, SK US, CA, JP (Pending)
<b>Additional Information</b>	Power Supply	2 AA DURACELL MN1500 Alkaline Primary Cell LR6 (These batteries are imperative prerequisites for the FFblue ATEX certification.)
	Power Consumption from Fieldbus	13 mA
	Degree of Protection	IP20
	Operation / Storage Temperature	0 °C ... +55 °C / -20 °C ... +70 °C (10 °C ... 25 °C for battery)
	Housing / Dimensions	ABS / 65 mm x 23 mm x 120 mm
	Weight	Approximately 200 g
	Cooling	Convection, no fan
<b>Zertifizierung</b>	ATEX	Directive 94/9/EC (Zone 1, Identification: II 2 (1) G Ex ia IIC T4 and II (1) D [Ex iaD])
	R8TTE	Directive 94/5/EC
	EMV	Directive 2004/108/EC
<b>Anwendungsschnittstelle</b>	API	FFblue API
<b>Systemvoraussetzungen</b>	PC / Notebook	Bluetooth interface
	Unterstützte Betriebssysteme	To be defined

## Lieferumfang

Hardware	FFblue, 1 set of batteries
Documentation	Manual, API manual

## Bestellnummern

DBA-KK-020400	FFblue
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