




WAGO's 757-801 Bluetooth® Module wirelessly connects a serial interface to external Bluetooth® devices (e.g., PCs/notebooks with Bluetooth®). Data is exchanged via Bluetooth® SPP (Serial Port Profile).

Substitute cabling between two serial devices by automatically restoring the outgoing wireless connection (e.g., to a second Bluetooth® module). High protection class provides enhanced, wireless Bluetooth® module's installation outside of control cabinets.

Coexistence properties:

- AFH (Adaptive Frequency Hopping)
- Adaptive transmission power with configurable upper limits for data exchange and device discovery
- Configurable channel blacklist for FHSS (Frequency Hopping Spread Spectrum)
- Coexistence optimized device discovery supported (media allocation < 5 %, allocation duration < 100 ms)

Description	Item No.	Pack. Unit
Bluetooth® Module	757-801	1
<b>Accessories</b>		
	Item No.	
Marking strips, felt-tip pen	see Section 10	
<b>Approvals</b>		
Conformity marking	CE	
 Bluetooth®	Bluetooth® approval	
<b>Technical Data</b>		
Version	2.1	
Radio class	Class 1/max. 100 m	
Antenna	integrated	
RF output power	max. +10 dBm	
RF input sensitivity	typ. -82 dBm	
Frequency range	2.402 ... 2.483 GHz (ISM band)	
Type of communication	Point-to-point connection	
Profiles supported	Serial Port Profile (SPP)	
Security encryption	Bluetooth® security mode 4 "Secure Simple Pairing" 128-bit encryption	
Dimensions (mm) W x H x L	30 x 20 x 117 (without cable)	
Weight	418 g	
Fixing	Screw mounting	
Ports	RS-232 interface (RX/TX) with hardware flow control (CTS/RTS) Bluetooth® radio interface	

Technical Data	
Baud rate	9600 ... 115200 bps
Indicators	five LEDs
Voltage supply	+24 VDC
Voltage range	+10 V ... +32 VDC
Current input (at 24 VDC)	< 50 mA
EMC immunity of interference	acc. to EN 61000-6-2
EMC emission of interference	acc. to EN 61000-6-3
Permissible temperature range	-20 °C ... +60 °C (static); -5 °C ... +60 °C (moving)
Storage temperature	-30 °C ... +80 °C
Degree of protection	IP67
Connecting cable	
Cable length	5 m
Cable design	Outer sheath PUR halogen-free Black
Cable Ø	6.6 mm (± 0.2 mm)
Screening	Copper braiding, tin-plated, 0.10 mm single-wire diameter
Conductor design	4 x 0.34 mm <sup>2</sup> + 2 x 0.75 mm <sup>2</sup> conductor 0.34 mm <sup>2</sup> , extra-fine stranded, 43 x 0.10 mm conductor 0.75 mm <sup>2</sup> , extra-fine stranded, 21 x 0.205 mm color identification of conductors
Bending radius	10 x cable diameter for flexible application
Bending cycles	1 million cycles