

FACT SHEET

Fieldbus communication

Modbus RTU



- Fast communication
- Innovative mounting
- Robust design

Modbus-RTU is a complete communication module which enables your products to communicate on a Modbus-RTU network.

01 Modbus RTU

Fast and easy communication

Modbus RTU is a variant of the Modbus family of simple, vendor neutral communication protocols intended for supervision and control of automation equipment. Specifically, it covers the use of Modbus messaging over RS485 network. The anybus module have solid security to prevent unauthorized software to be downloaded to the module. Furthermore, encryption is used to prevent illicit copying.

Ordering details

Module	Type	Order code	Pkg	KG
Modbus-RTU	AB-MODBUS-RTU-1	1SFA899300R1003	1	0.042

For more information, please contact your local ABB representative or visit <https://new.abb.com/drives/softstarters>

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Technical Details

Dimensions (LxWxH)	52x50x22 mm, 2.04x1.97x0.86" 51x37x16 mm, 2.014.46x0.63" (modules without housing)
Protection class	IP20
RoHS Compliance	Yes
Galvanically isolated network interface	Yes
Application drivers	"Standard" and "Lite" drivers available depending on host application requirements
Network status led outputs	Integrated on front with housing, via application interface without housing

Certifications

UL, cUL	Yes
Network conformance	Yes: Pre-certified for full fieldbus and Industrial Ethernet network conformance

CE - Declaration of Pre-Conformity

Emission EN 61000-6-4	EN55011 Radiated emission, EN55011 Conducted emission
Immunity EN 61000-6-2	EN61000-4-2 Electrostatic discharge, EN61000-4-3 Radiated immunity, EN61000-4-4 Fast transients/burst, EN61000-4-5 Surge immunity, EN61000-4-6 Conducted immunity

Electrical Characteristics

Power requirements	3.3 VDC, +/- 0.15 VDC
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Environmental Characteristics

Operating temp	-40 to 70 oC, -40-158 oF -40 to 85 oC, -40-176 oF (modules without housing)
Humidity	5-95 % non-condensing