

product type designation



Extension Board HART/RS485

Extension Board HART/RS485 for low-power RTU3000C family; connection of 16 Modbus RTU devices or of 16 HART devices in multidrop mode, max. 32 variables.

transfer rate	
transfer rate	
<ul style="list-style-type: none"> according to RS 232 	9600 ... 115200 bit/s
interfaces	
number of electrical connections	
<ul style="list-style-type: none"> for external data transmission / according to RS 232 	1
type of electrical connection	
<ul style="list-style-type: none"> at interface 1 / for external data transmission for power supply 	6-pin plug-in terminal strip internal, via RTU3000C
interface design 1 / note	For Modbus RTU (9600 ... 115200) bit/s, for HART 1200 bit/s
signal inputs/outputs	
output current / at digital output	300 mA; Limiting continuous current
supply voltage, current consumption, power loss	
type of voltage / of the supply voltage	DC
type of output voltage / for the supply of external devices	DC 12 V or 24 V
consumed current / note	without connected consumers
consumed current	
<ul style="list-style-type: none"> from external supply voltage / at 24 V DC <ul style="list-style-type: none"> in update mode / typical with battery operation / at 7.2 V DC <ul style="list-style-type: none"> in update mode / typical 	3 mA 5 mA
power loss [W]	without connected consumers
power loss [W] / with external supply voltage / at 24 V DC	
<ul style="list-style-type: none"> in update mode / typical 	0.08 W
power loss [W] / with battery operation / at 7.2 V DC	
<ul style="list-style-type: none"> in update mode / typical 	0.04 W
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> for vertical installation / during operation for horizontally arranged busbars / during operation during storage during transport 	-40 ... +60 °C -40 ... +70 °C -40 ... +70 °C -40 ... +70 °C
relative humidity	
<ul style="list-style-type: none"> at 30 °C / without condensation / during operation / maximum 	95 %
protection class IP	IP20; IP68 with protective housing (see accessories)
design, dimensions and weights	
module format	Plug-in module
width	38 mm

height	62 mm
depth	21 mm
net weight	0.022 kg
fastening method	
• 35 mm top hat DIN rail mounting	No
• wall mounting	No
product features, product functions, product components / general	
wire length	
• with RS 485 interface / maximum	30 m
performance data / telecontrol	
control center connection	via RTU3000C
protocol / is supported	
• Modbus RTU	Yes
• HART protocol	Yes
protocol version / for HART communication	HART Multidrop
address range / of HART as master	from 0 to 63
address range / of Modbus RTU as master	from 1 to 247
product functions / management, configuration, engineering	
configuration software	
• required	No, configuration via RTU3000C
product functions / diagnostics	
product function / web-based diagnostics	Yes; over RTU3000C
standards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
• as marking	Ex nA IIC T4 Gc
further information / internet links	
internet link	
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx-Download-Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity . To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com . (V3.4)

last modified:

8/30/2023 