

### 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"> <li>according to RS 232</li> </ul>	9600 ... 115200 bit/s
interfaces	
number of electrical connections	
<ul style="list-style-type: none"> <li>for external data transmission / according to RS 232</li> </ul>	1
type of electrical connection	
<ul style="list-style-type: none"> <li>at interface 1 / for external data transmission</li> <li>for power supply</li> </ul>	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"> <li>from external supply voltage / at 24 V DC                             <ul style="list-style-type: none"> <li>in update mode / typical</li> </ul> </li> <li>with battery operation / at 7.2 V DC                             <ul style="list-style-type: none"> <li>in update mode / typical</li> </ul> </li> </ul>	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"> <li>in update mode / typical</li> </ul>	0.08 W
power loss [W] / with battery operation / at 7.2 V DC	
<ul style="list-style-type: none"> <li>in update mode / typical</li> </ul>	0.04 W
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> <li>for vertical installation / during operation</li> <li>for horizontally arranged busbars / during operation</li> <li>during storage</li> <li>during transport</li> </ul>	-40 ... +60 °C -40 ... +70 °C -40 ... +70 °C -40 ... +70 °C
relative humidity	
<ul style="list-style-type: none"> <li>at 30 °C / without condensation / during operation / maximum</li> </ul>	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
<b>product features, product functions, product components / general</b>	
wire length	
• with RS 485 interface / maximum	30 m
<b>performance data / telecontrol</b>	
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
<b>product functions / management, configuration, engineering</b>	
configuration software	
• required	No, configuration via RTU3000C
<b>product functions / diagnostics</b>	
product function / web-based diagnostics	Yes; over RTU3000C
<b>standards, specifications, approvals / hazardous environments</b>	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
• as marking	Ex nA IIC T4 Gc
<b>further information / internet links</b>	
internet link	
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
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