

**Data sheet**  
**RATIO®-radio bus system**  
**Radio gateway RS485 bidirectional APG03B-RS485**



The Ratio® radio gateway APG03B-RS485 is a device for surface mounting. It serves as **bidirectional** gateway between the Ratio® radio senders and systems with RS485-interface. The gateway receives telegrams from all sensors and put them on the RS485-Bus or enable the RS485-System to transmit RF-telegrams to all Ratio® radio devices. For the configuration and set in operation is a special Softwaretool available.

**New, available 01.10.07**

Techn. Daten	Radio gateway APG03U-RS485	Remarks
Functions	Receive and transmit all standard-types of	EnOcean-Standard
Operating data	Rated voltage 12-24VDC Idle current consumption ca. 20mA,	Bemessungsstrom 0,5A Idle current consumption ca. 25mA
Radio technology	Protocol EnOcean PTM/STM	Frequency 868,3MHz
Radio module / Channels	TCM120	
Absicherung	keine	
Serving and display elements	1 button „LRN“, 1 button „CLR“, 1 button LED „LRN“, 1 button LED „CLR“	
Connection	Plug clamp 0,75mm <sup>2</sup>	
Mechanical data	Gehäuse: Kunststoff ABS, Abmessungen B=80mm H=80mm T=25mm, Gewicht: 80g	
Mounting / Assembly	Aufputz	
Environmental conditions	Umgebungstemperatur im Betrieb -5°C ... +40°C Rel. Feuchte (nicht kondensierend) 5 ... 90%	
Protection	IP20 according to EN 60529	
Norm conforming assembly	Device conforms to EN 090-2-2 and EN 60669-2-1	
Approbation	R R&TTE guidelines 1999/5/EC and conforming to EU guidelines.	
Labeling	According to EMV guidelines (residential and functional buildings), low voltage guideline. ROHS conforming according to 2002/95/EC.	

Safety references
The installation of this device may only be done by certified professionals. Before working with the device, turn off the electricity supply. The prevailing safety and accident prevention regulations must be observed.
Area of applications
The device may only be <ul style="list-style-type: none"> <li>Applied in the intended area of use</li> <li>Installed fixed in a dry and clean environment,</li> <li>Installed in a way that it can only be accessed by using the appropriate working tools.</li> </ul>

Diagram of connections	Designation	Type	Article number
<p>APG03B-RS485</p> <p>10-28VDC</p> <p>0VDC</p> <p>RX</p> <p>TX</p>	Radio gateway RS485 bidirectional	APG03B-RS485	6011000