

APS 400

APS mini

REP 485

RS 485 Bus Repeater for APS mini Plus and APS 400 systems

User's Guide



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1 Content

1	Content.....	2
2	Product Description	3
3	Technical parameters	3
3.1	Technical features.....	3
3.2	Mechanical design	3
4	Installation	4
4.1	Terminals and jumpers.....	4
4.2	LED indicators and buttons	4
4.3	Communication rate setting	4

2 Product Description

REP 485 repeater is an RS 485 bus repeater with a galvanic separation designed for APS mini Plus and APS 400 systems. Its mechanical design is DIN rail mountable.



Fig. 1: REP 485 repeater

3 Technical parameters

3.1 Technical features

Technical features	Supply voltage		8 ÷ 18 VDC
	Current demand	Typical	60 mA (12 V)
		Maximal	120 mA (12 V)
	Signalization		3x LED
	Communication interface		2x RS 485 – APS mini Plus or APS 400 system BUS
	Communication rate	APS mini Plus	
APS 400			57600 Bd

Table 1: Technical features

3.2 Mechanical design

Design	Weight		0,030 kg
	Operating temperature		-10°C ÷ +40°C
	Humidity		Max. 75%, non-condensing
	Environment		Indoor
	Dimensions		82 x 48 x 18 mm

Table 2: Mechanical design

4 Installation

4.1 Terminals and jumpers

Terminals and jumpers		
+13 V	+8 ÷ +18 VDC supply voltage	
GND	0 V	
485A	A cable – RS485 line	
485B	A cable – RS485 line	
D1	Supply voltage LED	
D2	Communication LED	
JA	Idle state definition (A)	
JB	Idle state definition (B)	
J0	Line termination (L)	
RATE	Communication rate (L)	
GND0	0 V (0)	
485A0	A cable – RS485 line	
485B0	B cable – RS485 line	
D3	Communication LED	
J0A	Idle state definition A	
J0B	Idle state definition B	
J00	Line termination	
RATE0	Communication rate	

Table 3: Terminals and jumpers

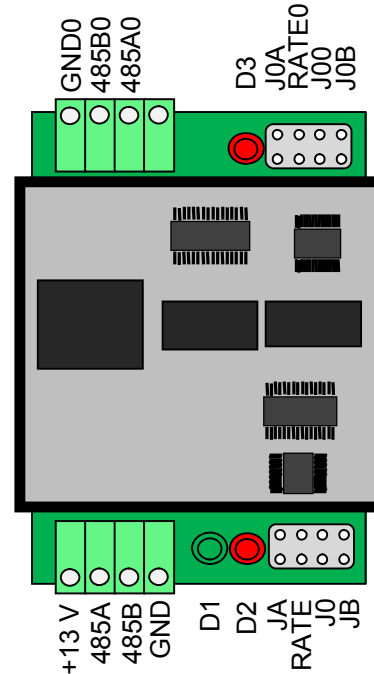


Fig. 2: Terminals and jumpers

4.2 LED indicators and buttons

LED			
LED	Power Supply LED	D1	Repeater being powered
	Communication LEDs	D2	Repeater sending data to connected bus
		D3	Repeater sending data to connected bus

Table 4: LED indication purpose

4.3 Communication rate setting

CR	Jumpers		
CR	RATE, RATE0	uninstalled	Rate 19200 Bd, APS mini Plus system bus
		installed	Rate 57600 Bd, APS 400 system bus

Table 5: Communication rate setting