RTU520 product line

I/O adapter 520ADD01
Data sheet

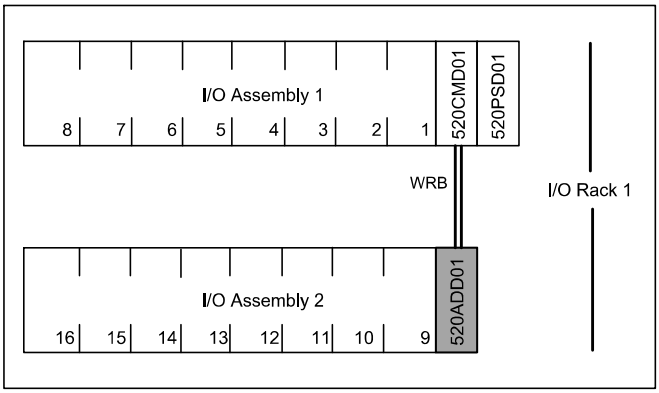

Figure 1: Connection diagram 520ADD01

Application

The I/O adapter 520ADD01 is used to connect RTU520 I/O modules to a RTU520 or RTU540 communication module.

Characteristics

The I/O adapter is connected to the WRB I/O bus (wired OR bus) and generates the addresses for the connected I/O modules within the I/O assembly automatically.

The module has two green LEDs for signaling the activity on the I/O bus.

Technical data

In addition to the RTU500 series general technical data, the following applies:

Current consumption for power supplied via WRB bus	
5 V DC	20 mA
15 V DC	
18 V DC	
24 V DC	

Signaling by LEDs	
Tx	Transmission to the I/O bus
Rx	Receiving from the I/O bus

Mechanical layout	
Dimensions	35 mm x 98 mm x 117 mm (Width x Hight x Depth)
Housing type	Plastic housing (V-0), IP20, RAL 7035 light gray
Mounting	DIN rail mounting EN 50022 TS35: 35 mm x 15 mm or 35 mm x 7.5 mm
Weight	0.11 kg

Connection Type	
Connector to the I/O modules (X1)	2 x 10 pin, female
WRB I/O bus (X2) from CMU module or 520ADD01/3	2 x 10 pin, male for standard ribbon cable (included in delivery)
WRB I/O bus (X3) to next 520ADD01/2 module	2 x 10 pin, male for standard ribbon cable

Insulation tests	
AC test voltage IEC 61000-4-16 IEC 60870-2-1 (class VW3)	2.5 kV, 50 Hz Test duration: 1 min
Impulse voltage withstand test IEC 60255-5 IEC 60870-2-1 (class VW 3)	5 kV (1.2 / 50 µs)
Insulation resistance IEC 60255-5	> 100 MΩ at 500 V DC

Immunity test	
Electrostatic discharge IEC 61000-4-2	8 kV air / 6 kV contact (level 3) Performance criteria A
Radiated Radio-Frequency Electro-magnetic Field IEC 61000-4-3	10 V/m (level 3) Performance criteria A

Immunity test	
Electrical Fast Transient / Burst IEC 61000-4-4	4 kV (level X) Performance criteria A
Surge IEC 61000-4-5	2 kV (level 3) Performance criteria A
Conducted Disturbances, induced by Radio-Frequency Fields IEC 61000-4-6	10 V (level 3) Performance criteria A
Damped oscillatory wave IEC 61000-4-18	2.5 / 1 kV (level 3) Performance criteria A

Environmental conditions	
Nominal operating temperature range: Start up: Max. operating temperature, max. 96h: EN 60068-2-1, -2-2, -2-14	-25 ... +70 °C -40 °C +85 °C
Relative humidity EN 60068-2-30	5 ... 95 % (non condensing)

Ordering information	
520ADD01 R0001	1KGT033000R0001

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