

APSLAN

Communication converter APS mini Plus <-> Ethernet or WIEGAND -> Ethernet

User's Guide



techfass®

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2 Product description

The communication converter **APSLAN** is designed for communication with **APS mini Plus** system via **TCP/IP** interface or for providing one-way communication from the readers' **WIEGAND** output via **TCP/IP** interface. The mechanical design is DIN rail mountable.



Fig. 1:APSLAN converter

3 Technical parameters

3.1 Technical features

Technical features	Supply voltage		8 ÷ 18 VDC
	Current demand	Typical	95 mA (12 V)
		Maximal	130 mA (12 V)
	Signalization		LED – function mode and communication status indication
Communication interface		1x Ethernet - LAN connection 1x RS 485 – APS mini Plus BUS 1x WIEGAND input	

Table 1: Technical features

3.2 Mechanical design

Design	Weight	0,033 kg
	Operating temperature	-10°C ÷ +40°C
	Humidity	Max. 75%, non-condensing
	Environment	Indoor
	Dimensions	65 x 48 x 20 mm

Table 2: Mechanical design

4 Installation

4.1 Terminals and jumpers

Terminals and jumpers		
D1	Communication LED	
JB	Idle state definition B	
JA	Idle state definition A	
J0	Line termination	
B	B cable – RS 485 line	
A	A cable – RS 485 line	
W1	WIEGAND Data 1	
W0	WIEGAND Data 0	
+13 VDC	+8 ÷ +18 VDC power supply	
GND	0 V	
RESET	Reset button	

Table 4: Terminals and jumpers

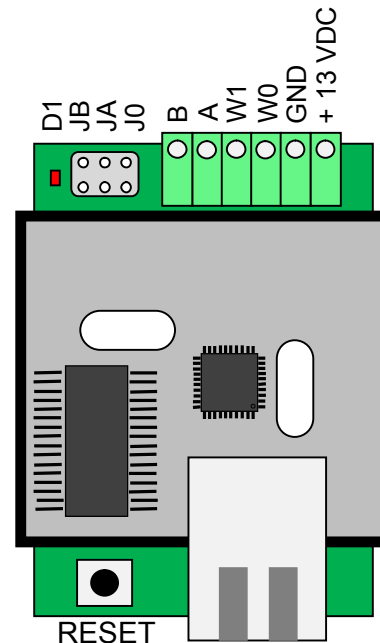


Fig. 2: APSLAN terminals and jumpers

4.2 LED indicators and buttons

Purpose		
Communication LED	Continuously lit	Online communication (RS485 mode)
	Long slow flashing	Offline (RS485)
	Short flashes	WIEGAND mode
RESET button	Short button depression	Converter restart
	Long button depression	Converter restart with factory defaults

Table 4: LED indicators and buttons purpose

5 Converter parameters setting

5.1 Factory defaults

Default factory parameters of a converter are:

- IP address: *192.168.1.253*
- IP port: *10001*
- Password: *1234*
- Subnet mask: *255.255.255.0*
- Gateway IP address: *192.168.1.1*
- Function mode: *RS485/Ethernet*

These parameters (with an exception of function mode) can be reset by depressing the *RESET* button for *5 seconds period* or more. The exceeding of this period is signaled with a fast flashing of a LED. A shorter depression of the *RESET* button restarts the converter and keeps its settings.

5.2 Configuring the converter via TELNET terminal

The *APSLAN* communication converter parameters' setting is realized via a *TELNET terminal* with a following procedure:

- Connect the *converter* to a *LAN* and connect a *power supply*.
- Run the command line with *cmd* command.
- Run the command *telnet IP_Address 9999* to access the *Converter setting* in a telnet terminal.
- Enter the *password* and press *Enter*.

After a successful entering of the password, MAC address of the converter and a settings menu will be displayed.

If you do not know the *IP address* of the converter and you cannot use the *reset button* to set the default parameters, the *IP address* can be temporarily set for a single connection with this procedure:

- Insert a record into the *ARP table* with the command *arp -s IP_Address MAC Address*. *IP_Address* must be in the same subnet as your network interface, *MAC_Address* is printed in the converter accessories.
- Run the command *telnet IP_Address 1* to insert the desired IP address into *ARP table* of the converter (Telnet shows an error message after a while). This assignment is only temporary; you must set the *IP Address again* in next steps.

You can continue now with the procedure described above.

5.2.1 Changing IP address

You can change the *IP address* by selecting *1 Set IP*. A new address is entered by single bytes separated by the *Enter* key. If the entered value is out of allowed range, the byte is not changed. After inserting all of the address bytes the *final IP address* is displayed and you are returned back to the main menu.

5.2.2 Changing IP port

Changing an *IP port* is available after choosing the option **2 Set port**. If the entered value is out of allowed range, IP port is not changed. After a successful insertion the *IP port* is displayed and you are returned back to the main menu.

5.2.3 Changing the password

A change of the *password* is available after choosing the option **3 Set password**. You can use any alphanumerical string as a password, it can contain up to 9 characters. A blank password is not allowed. The password is saved by pressing the **Enter** key.

If a password is lost, the only solution to enable accessing the settings menu is resetting the converter to its factory defaults.

5.2.4 Changing subnet mask

You can change the *subnet mask* by selecting **4 Set IP subnet mask**. A new subnet mask is entered by single bytes separated by the **Enter** key. If the entered value is not allowed, the subnet mask is not changed. After inserting all of the address bytes the *final subnet mask* is displayed and you are returned back to the main menu.

5.2.5 Changing gateway IP address

You can change the *gateway IP address* by selecting **5 Set gateway IP**. A new address is entered by single bytes separated by the **Enter** key. If the entered value is out of allowed range, the byte is not changed. After inserting all of the address bytes the *final IP address* is displayed and you are returned back to the main menu.

5.2.6 Changing the function mode

To change the function mode choose the option **4 Set function mode**. After that select desired function mode by pressing 0 for *RS485/ethernet* mode or 1 for *Wiegand/Ethernet* mode. Current function mode is indicated by the communication LED flashing (see *table 4*).

5.2.7 Saving the settings

To *save the settings* choose the option **9 Save & Exit**. If you *do not want to save* the parameters, exit the settings menu by choosing **8 Exit without saving**.