D6 RS485 - RJ45 - (NET)

INSTALLATION GUIDE

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This product is covered by a warranty against material and manufacturing defects for a 24 months period from the manufacturing date.

The warranty does not cover the defects that are due to:

- · Negligent and improper use
- · Failures caused by atmospheric hazards
- Acts of vandalism
- · Wear out of materials
- · Firmware upgrades

Akse reserves the right, at its discretion, to repair or substitute the faulty products

The warranty is not applicable to the products that will result defective in consequence of a negligent and improper use or an operating procedure not contemplated in this manual.

RETURN AND REPAIR FORMALITIES

Akse accepts the return of instruments for repair only when authorized in advance. The transport costs are at customer charge.

RE-SHIPPING OF REPAIRED PRODUCT

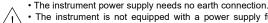
The terms for re-shipment of repaired products are ex-works, i.e. the transport costs are

Products returned as detective but found to be perfectly working by our laboratories, will be charged a flat fee to account for checking and testing time irrespective of the warranty

SAFFTY

This instrument was manufactured and tested in compliance with IEC 61010-1 CAT III -300V class 2 standards for operating voltages up to 300 VAC rms phase to neutral In order to maintain this condition and to ensure safe operation, the user must comply with the indications and markings contained in the following instructions:

- · When the instrument is received, before starting its installation, check that it is intact and no damage occurred during transport.
- · Before mounting, ensure that the instrument operating voltages and the mains voltage are compatible then proceed with the installation.



• The instrument is not equipped with a power supply fuse; a suitable external protection fuse must be foreseen by the contractor.

- Maintenance and/or repair must be carried out only by qualified, authorized nersonnel
- If there is ever the suspicion that safe operation is no longer possible, the instrument must be taken out of service and precautions taken against its accidental use

Operation is no longer safe when:

- There is clearly visible damaged.
- The instrument no longer functions
- After lengthy storage in unfavorable conditions.
- After serious damage occurred during transport

The instruments must be installed in respect of all the local regulations.

OPERATOR SAFETY

Warning: Failure to observe the following instructions may lead to a serious danger of

- During normal operation dangerous voltages can occur on instrument terminals and on voltage and current transformers. Energized voltage and current transformers may generate lethal voltages. Follow carefully the standard safety precautions while carrying out any installation or service operation.
- The terminals of the instrument must not be accessible by the user after the installation. The user should only be allowed to access the instrument front panel where the display is located.
- Do not use the digital outputs for protection functions nor for power limitation functions. The instrument is suitable only for secondary protection functions.
- The instrument must be protected by a breaking device capable of interrupting both the power supply and the measurement terminals. It must be easily reachable by the operator and well identified as instrument cut-off device.
- The instrument and its connections must be carefully protected against short-circuit.

Precautions: Failure to respect the following instructions may irreversibly damage to the

- The outputs and the options operate at low voltage level; they cannot be powered by any unspecified external voltage.
- The application of currents not compatible with the current inputs levels will damage to the instrument.

Further documentation may be downloaded from our web site www.electrex.it.

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DECLARATION OF CONFORMITY

Akse hereby declares that its range of products complies with the following directives EMC 2014/30/EU, 2014/35/EU and complies with the following product's standard CEI EN 61326 - Ed. 2.0 (2012) - IEC 61326 - Ed. 2.0 (2012) CEI EN 61010 Ed. 3 (2010) - IEC 61010 Ed. 3 (2010). The product has been tested in the typical wiring configuration and with peripherals conforming to the EMC directive and the LV directive.

READINGS



MEASURE LIST TABLE

(The parameters available vary according to instrument configuration)

V		Ŀ		P/	PF		[NT •	Long ke	eypress
Short keypress	U U Min U Max	Short keypress	I Max I AVG	Short keypress		P P Xyg Imp P Avg Exp P MD Imp P MD Exp	Short keypress		Ea + MAIN Ea - MAIN Ea Phase Ea + Phase Ea - Phase Ea + P1 Ea - P1 Ea + P2	t LIFE t MAIN t P1 t P2 t P3
									Ea - P2	
									Ea + P3 Ea - P3	

LEGEND OF PARAMETERS AND SYMBOLS

U	Voltage	L-N	Phase - Neutral reference
I	Current	L-L	Phase - Phase reference
Р	Active Power	THD	Total Harmonic Distortion
Q	Reactive Power	Min Minimum values (10 cycles time	
S	Apparent Power	Max	Maximum values (10 cycles time base)
PF	Power Factor	Avg	Average value
Ea	Active Energy	MD	Maximum Demand
Er	Reactive Energy	∑ / MAIN	Value (total)
Es	Apparent Energy	P	Value (partial)
L	Inductive	t	Time counting
С	Capacitive	LIFE	Operating time
Imp / +	Imported value		
Exp / -	Exported value		

MECHANICAL CHARACTERISTICS				
Case	Self-extinguishing plastic material class V0			
Protection degree	IP40 on front panel, IP20 terminals side			
Size	105 x 90 x 58 mm (6 DIN modules)			
VOLTAGE INPUT				
Direct insertion	Up to 300 V			
	max. 360 V			
Aux. power supply	85÷265Vac +/- 10% 50/60Hz			
Self consumption:	< 2,5VA			

MODELS

PFN66-H0509-110, PFN66-H0509-A10, PFN66-H0W09-110, PFN66-H0709-0M0

DEVICE SETUP DESCRIPTION OF KEYS Short keypress Long keypress Short keypress Long keypress Confirm parameter Setup confirmation P/PF Go to previous value Go to previous page Modify parameter Setup confirmation Exit without saving the configuration

ENTE	R THE SETUP	EXIT THE SETUP		
Push for 2 seconds	MENU ENTER	Push for 2 seconds	Esc	
Using the keys or select SET from the menu	ELECTREX XXXX D6 ADDR 247 PAGE STAT VER X.XX SN XXXXXXX RESET MAC XXXXXXXXXXXX RESET MEAS			
Push the key	MENU ENTER			

SETUP SEQUENCE

PAGE	PARAMETERS	VALUES AVAILABLE	DEFAULT
PASSWORD	DACCIMORD	10000 0000	0000
MEAS-A Note n.1	PASSWORD	0000 9999	0000
MEAS-A	NET	3PH-4W, 2PH-2W, 1PH-2W, 3PH-3W-2C	3PH-4W
NET 3P-4W / EXP	EXPORT	IMP / EXP	EXP
CT 10000 / 500 VT 020000 / 5	СТ	10000 / 500	500/500
71 020000 7 3	VT	400000/300	1/1
MEAS-B Note n.2			
MEAS-B	I AVG	160 (minutes)	8
I AVG 8 PAVG 15			
	PAVG	160 (minutes)	15
RS485-A Note n.3	ı	I	
RS485-A	MODE	SLAVE, MASTER	SLAVE
MODE SLAVE TOUT 03000	TOUT	10010000 (ms)	3000
RETR 3	RETR	09	3
RS485-B	1		
	ADDR (485 address)	1 247	247
RS485-B	COM1 (Baud rate)	2400, 4800, 9600, 19200, 38400	38400
ADDR 247	COM1 (Data Bit)	7 or 8	8
COM1 38400 / 8 COM2 N / 2	COM2 (Parity)	N = no parity, E = even parity, O = odd parity	N
ST 0150	COM (Stop bit)	1 or 2	2
	S.T. (Silent Time)	0 1000 mS (Step of 10)	100
ETH Note n.4	DHCP	N, Y	N
ETH		1	
DHCP N IP 192.168.027.001	IP	XXX.XXX.XXX	192.168.027.001
NETM 255.255.255.000	NETM	XXX.XXX.XXX	255.255.255.000
GWAY 127.000.000.001	GWAY	XXX.XXX.XXX	127.000.000.001
WIFI Note n.4			
WIFI	DHCP	N, Y	N
DHCP N	IP	XXX.XXX.XXX	192.168.026.001
IP 192.168.026.001 NETM 255.255.255.000	NETM	XXX.XXX.XXX	255.255.255.000
GWAY 127.000.000.001	GWAY	xxx.xxx.xxx	127.000.000.001
NET Note n.5			
NET	DEF	ETH, WIFI	ETH
DEF ETH ETH Y WIFI Y	ETH	N, Y	Y
MILT	WIFI	N, Y	Y
LCD Note n.6	1		
LCD	DIM	DISABLE, ENABLE	DISABLE
DIM DISABLE	TIME	190 (sec)	3
TIME 3	LIGHT	3001000	500
LIGHT 50 PULSE ENABLE	PULSE	DISABLE, ENABLE	ENABLE
ALARM 1 / A Note n.7		NORMAL 1 OF 2 2 OF 2	
ALARM 1-A	MODE	NORMAL, 1-OF-3, 3-OF-3, UNBAL%, DERIV, UNBAL	NORMAL
MODE NORMAL	TYPE	MIN, MAX	MAX
TYPE MAX MEAS 000	MEAS (note n.5)	Controlled measure. See table n.1 for register selection	000
THRE +000.000	THRE (note n.5)	Threshold value	+000.000
ALARM 1 / B Note n.8			1 233.300
ALARM 1-B	HYST	099 (%)	05
HYST 05	DEL	099 / S,M / 099 / S,M	01/S/01/S
DEL 01 / S / 01 / S	AVG	099 (sec)	05
AVG 05 OUT NORMAL	OUT	NORMAL, PULSE-S, PULSE-L,	NORMAL
ALARM 2 / A (see ALARM 1)		HOLD	
ALARM 2 / B (see ALARM 1)	(B)		
ALARM 3 / A (see ALARM 1)	(A)		

ALARM 3 / B (see ALARM 1/	B)		
ALARM 4 / A (see ALARM 1/	A)		
ALARM 4 / B (see ALARM 1/	B)		
CHANGE PWD			
	PWD	00009999	0000

STAT

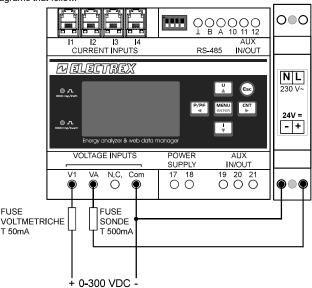
The "STAT" page shows the assigned IP address of the LAN and WI-FI port (if present)

ETH 192.168.027.001 WIFI 192.168.026.001

maximum and minimum delay and applicable hysteresis. "AVG" parameter is not used. 1-OF-3 Considers also the 2 following registers of the selected one in "MEAS". It operates on a fixed max or min threshold with delay and applicable hysteresis. If one of the three registers exceeds the threshold the alarm goes ON. "AVG" parameter is not used. 3-OF-3 Considers also the 2 following registers of the selected one in "MEAS". It operates on a fixed max or min threshold with delay and applicable hysteresis. When all the three registers exceed the threshold the alarm goes ON. "AVG" parameter is not used. DERIV "THRE" parameter becomes a % value, "AVG" parameter is used. The instant value applied to the alarm on "MEAS" is compared with its value mediated obtained on the basis of the time set on "AVG". When the instantaneous value combined alarm differs in more (setting "Max") or less (setting "MIN") from the average value (" AVG ") of the percentage set on "THRE" the alarm goes on. With delay and applicable hysteresis. UNBAL Considers also the 2 following registers of the selected one in "MEAS". "THRE" parameter becomes a % value. Alarm goes on when one of the three register is different from the			
3PH-4W 3 phases 4 wires, Star 2PH-2W 1 phases 2 wires, Single phase 1 PH-2W 1 phases 2 wires, Single phase 3 19 phase 3 phases 3 phases 2 wires, Single phase 3 19 phase 3 phases 3 phase 3 phas		0011 014 00	Florebasse 2 minus. Trib.
2PH-2W 1 phase, 2 wires, Single phase 3	NE f		
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PAVG			
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PULSE-S Generates a 100ms impulse when the alarm goes on.		PULSE-L	Generates a 500ms impulse when the alarm goes on.
		PULSE-S	Generates a 100ms impulse when the alarm goes on.

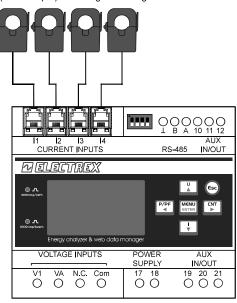
VOLTAGE CONNECTION

Use cables with max cross-section of 2,5 $\,$ mm² if stranded, 4 $\,$ mm² if rigid and connect them to the terminals marked VOLTAGE INPUT on the instrument according to the applicable diagrams that follow.



CURRENT CONNECTION

Use only the CTs supplied with the instrument. Connect the CTs to the terminals marked with I1, I2, I3, I4 (current input) according to the diagrams.



N.B. Failure to comply with the connection diagrams results in measurement errors. Do not extend the CT cables.

DIP-SWITCH CONFIGURATION DIP FUNCTION SI AVE MASTER * Line termination resistance (120 Ohm) OFF ON Fail safe resistance B (-) OFF ON Fail safe resistance A (+) OFF ON OFF OFF 4 Not used with RS-485 Master PUK activated

LAN 10/100 ETHERNET PORT



The instrument is equipped with a Ethernet Lan 10/100 Auto-MDI/MDIX port.

For the connection can be used a data cable straight or crossover.

Note: the port is not a PoE (Power over Ethernet = device power supply via the Lan port) type. The connection of the device to a PoE port is anyway accepted. The power supply anyway must be always provided by an external power supplier.

EXPBUS PORT



The ExpBus port, configurable via Ethernet port on web pages:

- uses a multicast communication rated at 250kb/sec with collision management
- max cable length : 10 meters
- manages up to 16 modules (but technically can manage up to 126)
- uses the UTP cable, 4 wires used:
 - 2 for the power supply at 9 Vdc

2 for the bidirectional communication
The modules will also power supply the ExpBus port

The cable must be connected in in-out modality (multidrop) as per the RS485 Bus.

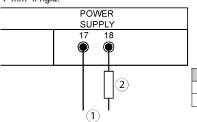
MESSAGE "CFG ERROR"

During the set up operation a "CFG ERROR" message could appear. This means that some wrong parameters are typed.



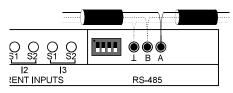
POWER SUPPLY

The instrument is equipped with a separate power supply. The power supply terminals are numbered (17) and (18). Use cables with max cross-section of 2,5 mm² if stranded, 4 mm² if rigid.



POWER :	SUPPLY
1	85/265Vac +/- 10% 50/60Hz
2	F: 500 mA T
	POWER S

SERIAL LINE CONNECTION



RS485	
Address	27
Baud rate	38400
Parity	None
Bit of Stop	2

Max cable length: 1000 meters.

