D6 RS485 - RJ45 - (NET)

INSTALLATION GUIDE

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WARRANTY

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 at customer charge.

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 terms

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.
- \wedge :
- The instrument power supply needs no earth connection.
 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 personnel
 - 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 death.

- 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 instrument.

- 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)

				P/PF		1	Long Keypress						
النااالنا								\rightarrow	\rightarrow	\cap			
	۲)	UL-N		n	1		Γ)	Р	Q	S	PF
၂		Ш	U L-L	S		IΣ	ွ		Ш	PΣ	QΣ	SΣ	PF ∑
Keypress	ŀ	t۱	U THD L-N	Keypress	resi	ITHD	resi	Ш	ł۱	P Avg Imp	Q Avg Imp	S Avg Imp	
eyp	Ī	П	U THD L-L	eyp	ÎΙ	I THD ∑	Keypress	ıŢ	П	P Avg Exp	Q Avg Exp	S Avg Exp	
¥	Ш,	IJ	U L-N Min		IJ	I Max		Ш,	l	P MD Imp	Q MD Imp	S MD Imp	
Short	A	H	U L-L Min	Short	∤ ĭ	I AVG	Short	 	П	P MD Exp	Q MD Exp	S MD Exp	
0)		Ш	U L-N Max	0)		IMD	0)		Ш				
	l	J	U L-L Max		U			Įι	J				

	NT]	Long Keypress								
L										
		Ea + MAIN	Er + L MAIN	Er + C MAIN	Es + MAIN	t LIFE				
		Ea - MAIN	Er - L MAIN	Er - C MAIN	Es - MAIN	t MAIN				
	$ \cap $	Ea Phase	Er L Phase	Er C Phase	Es Phase	t P1				
SS		Ea + Phase	Er + L Phase	Er + C Phase	Es + Phase	t P2				
Short Keypress		Ea - Phase	Er - L Phase	Er - C Phase	Es - Phase	t P3				
Key		Ea + P1	Er + L P1	Er + C P1	Es + P1					
ort	ΙĮΫ	Ea - P1	Er - L P1	Er - C P1	Es - P1					
꺙	I	Ea + P2	Er + L P2	Er + C P2	Es + P2					
	U	Ea - P2	Er - L P2	Er - C P2	Es - P2					
		Ea + P3	Er + L P3	Er + C P3	Es + P3					
		Ea - P3	Er - L P3	Er - C P3	Es - P3					

LEGEND OF PARAMETERS AND SYMBOLS

U	Voltage	L-N	Phase-Neutral
I	Current	L-L	Phase-Phase
Р	Active Power	THD	Total Harmonic Distortion
Q	Reactive Power	Min	Minimum values (10 cycles time base)
S	Apparent Power	Max	Maximum values (10 cycles time base)
PF	Power Factor	Avg	Average (rolling) value
Ea	Active Energy	MD	Maximum Demand
Er	Reactive Energy	∑ / MAIN	Value (total)
Es	Apparent Energy	Р	Value (partial)
L	Inductive	t	Time counter
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 INPUTS					
Direct insertion	Up to 300 Vrms phase-neutral or 520 Vrms phase to phase				
With external VT:	Primary: programmable (max. 400 kV) Secondary: programmable (max. 300 V)				
	Overload: 900 Vrms phase to phase for 1 sec				
Aux. power supply	85÷265Vac +/- 10% 50/60Hz				
Self consumption: < 2.5VA					

MODELS

PFNK6-1Q7D9-0MM, PFNK6-1Q5D9-121, PFNK6-1Q5D9-A21, PFNK6-1Q5D9-F21 PFNE6-1H7D9-0M0, PFNE6-1H5D9-110, PFNE6-1H5D9-A10, PFNE6-1H5D9-F10 PFN66-EH7D9-0M0, PFN66-EH5D9-110, PFN66-EH5D9-F10, PFNK6-1Q7D9-0M0, PKA0212-00

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

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 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				
Push the key	MENU ENTER				

SETUP SEQUENCE

PAGE	PARAMETERS	VALUES AVAILABLE	DEFAULT
PASSWORD			
MEAS-A Note n.1	PASSWORD	0000 9999	0000
MEAS-A	NET	3P-4W, 2P-2W, 1P-2W,	3P-4W
NET 3P-4W / EXP	EXPORT	IMP / EXP	EXP
CT 00005 / 5	CT	10000/1 or 5	5/5
YT 000001 / 001	VT	40000/300	1/1
MEAS-B Note n.2	VI	40000/300	1/1
MEAS-B Note 11:2			
	I AVG	160 (minutes)	8
I AVG 8 PAVG 15			
	P AVG	160 (minutes)	15
RS485-A Note n.3	1		
RS485-A	MODE	SLAVE, MASTER	MASTER
MODE SLAVE	TOUT	10010000 (ms)	3000
TOUT 03000 RETR 3			
	RETR	19	3
RS485-B			
RS485-B	ADDR (485 address)	1 247 2400, 4800, 9600, 19200,	247
	COM1 (Baud rate)	38400, 56000, 57600, 115200	38400
ADDR 247 COM1 38400 / 8	COM1 (Data Bit)	5 8 N = no parity, E = even parity,	8
COM2 N / 2	COM2 (Parity)	O = odd parity	N
ST 0150	COM (Stop bit)	1 or 2	2
ETH Note n.4	S.T. (Silent Time)	0 5000 mS	150
ETH	DHCP	N, Y	N
DHCP N	IP	xxx.xxx.xxx	192.168.027.001
IP 192.168.027.001	NETM	xxx.xxx.xxx	255.255.255.000
NETM 255.255.255.000 GWAY 127.000.000.001			
WIFI Note n.4	GWAY	XXX.XXX.XXX	127.000.000.001
WIFI	DHCP	N, Y	N
1121	IP	xxx.xxx.xxx	192.168.026.001
DHCP N 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	ETH	N, Y	Y
WIFI Y	E.III	14, 1	'
	WIFI	N, Y	Y
LCD Note n.6	1	I	
LCD	DIM	DISABLE, ENABLE	DISABLE
DIM DISABLE	TIME	190 (sec)	3
TIME 3 LIGHT 50	LIGHT	099	50
PULSE ENABLE	PULSE	DISABLE, ENABLE	ENABLE
ALARM 1 / A Note n.7	1		
ALARM 1-A	MODE	NORMAL, 1-OF-3, 3-OF-3, UNBAL%, DERIV, UNBAL	NORMAL
MODE NORMAL	TYPE	MIN, MAX	MAX
TYPE MAX	MEAS (note n.5)	Controlled measure. See table	000
MEAS 000 THRE +000.000	THRE (note n.5)	n.1 for register selection Threshold value	+000.000
ALARM 1 / B Note n.8	TTINE (Hote H.5)	THICSHOIL VAILE	+000.000
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	199 (sec)	05
AVG 05		NORMAL, PULSE-S, PULSE-L,	
OUT NORMAL	OUT	HOLD	NORMAL
ALARM 2 / A (see ALARM 1/ ALARM 2 / B (see ALARM 1/			
ALARM 3 / A (see ALARM 1/			

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							

RESET

The "RESET" page allows to reset the total (TOT) and partial (PAR) energy counters, the minimum and maximum values (MAX) and the historical maximum values (MD).



STAT

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



ETH ETH 192.168.027.001 WIFI 192.168.026.001

TABLE n.1 - Part of ModBus Registers; for e.g. alarm configuration. (Contact us for the full list).

REGISTER	DESCRIPTION	SYMBOL	UNIT
218	Frequency of U1N	f	[Hz]
220	Phase to Neutral Voltage, RMS Amplitude	U1N	ĺνι
222	Phase to Neutral Voltage, RMS Amplitude	U2N	ĺνί
224	Phase to Neutral Voltage, RMS Amplitude	U3N	ĺνί
226	Phase to Phase Voltage, RMS Amplitude	U12	ĺνί
228	Phase to Phase Voltage, RMS Amplitude	U23	ίνi
230	Phase to Phase Voltage, RMS Amplitude	U31	īvi
232	Phase Current, RMS Amplitude	11	[A]
234	Phase Current, RMS Amplitude	12	[A]
236	Phase Current, RMS Amplitude	13	[A]
238	Neutral Current, RMS Amplitude	IN	[A]
240	Phase Active Power (Imp/Exp)	P1	[W]
242	Phase Active Power (Imp/Exp)	P2	iwi
244	Phase Active Power (Imp/Exp)	P3	įwi
246	Phase Reactive Power (Imp/ Exp)	Q1	[var]
248	Phase Reactive Power (Imp/ Exp)	Q2	[var]
250	Phase Reactive Power (Imp/Exp)	Q3	[var]
252	Phase Apparent Power	S1	[VA]
254	Phase Apparent Power	S2	ĪVAĪ
256	Phase Apparent Power	S3	ĪVAĪ
258	Phase Power Factor (Imp/ Exp)	PF1	[-]
260	Phase Power Factor (Imp/ Exp)	PF2	[-]
262	Phase Power Factor (Imp/ Exp)	PF3	[-]
270	Phase to Neutral Voltage, Mean RMS Amplitude	UI	ĺΫΙ
272	Phase to Phase Voltage, Mean RMS Amplitude	UD	ίνί
274	Three phase current, RMS Amplitude	ı	ΪΑΊ
276	Total active power (Imp/ Exp)	PS	īwī
278	Total reactive power (Imp/ Exp)	QS	[var]
280	Total apparent power	SS	[VA]
282	Total power factor (Imp/ Exp)	PFS	[-]
332	Phase Current, RMS Amplitude, AVG	I1 AVG	[A]
334	Phase Current, RMS Amplitude, AVG	I2 AVG	ΪΑΊ
336	Phase Current, RMS Amplitude, AVG	I3 AVG	ΪΑΊ
344	Total imported active power, AVG	P Imp AVG	[W]
346	Total imported inductive power, AVG	Qind Imp AVG	[var]
348	Total imported capacitive power, AVG	Qcap Imp AVG	
350	Total imported apparent power, AVG	S Imp AVG	[VA]
352	Total exported active power, AVG	P Exp AVG	[W]
354	Total exported inductive power, AVG	Qind Exp AVG	
356	Total exported capacitive power, AVG	Qcap Exp AVG	
358	Total exported apparent power, AVG		[VA]

NOTE n.1		
NET	3PH-3W	2 phases 3 wires, Triangle
	3PH-4W	3 phases 4 wires, Star
	2PH-2W	2 phases 2 wires, Bi-phase
	1PH-2W	1 phase, 2 wires, Single phase
СТ	3l Primary / So	3 phases condary of the current transformer (CT)
VT	Primary / Sec	condary of the current transformer (CT)
NOTE n.2	Timaly 7 Co.	or the voltage transformer (V1)
P AVG	Integration til	me for Power of the average value (AVG) and peak value (MD)
I AVG	Integration tir	ne for Current of the average value (AVG) and peak value (MD)
MODE n.3	SLAVE	RS485 port set as Slave of the network.
INIODE	MASTER	RS485 port set as Slave of the network.
TOUT	IVII (O I E I C	Predetermined time in which a given operation must be
		terminated
RETR		Number of communication attempts on the RS485 port
NOTE n.4	Trackle / Disc	the the count for a DUOD communication actions.
DHCP IP		able the search for a DHCP server in the network f the network interface
NETM		c: defines the belonging range of a host within an IP
	subnetwork	
GWAY	IP address of	f the gateway
NOTE n.5		
DEF		lefault network interface to be used for the communication
WIFI		able the Ethernet (LAN) port able the WIFI port
NOTE n.6	Lilable / DIS	abic the vvii i port
DIM	Enable / Disa	able dimming of the display
TIME	Time in seco	nds after which the display luminosity is reduced. (With DIM
	enabled)	
LIGHT		evel of the display
PULSE		able the flashing of the sine wave symbol $ar{ar{\omega}}$ light near the
NOTE n.7	Electrex logo).
MODE	NORMALE	Classic Alarm with reference to a fixed threshold or to
		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
	3-OF-3	is not used. Considers also the 2 following registers of the selected one
	3-01-3	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
		percentage set on "THRE" comply with the higher value of the
		three read register if "MAX" is set on "TYPE", or comply with
		the lower value of the three register if "MIN" is set on "TYPE" With delay and applicable hysteresis.
TYPE	MAX	Alarm setting in excess or in decrease compared with the
· · · · -		predefined conditions.
	MIN	With the exception of "UNBAL and UNBAL%".
MEAS		Indicates which register (measure) the alarm is related to.
		See table N.1 Input Register.
THRE		Alarm threshold in absolute value, with the exception made
		for "DERIV" and "UNBAL" in which the value inserted be-
NOTE n.8	1	comes a percentage.
HYST	T	Hysteresis, or the cycle between alarm value and alarm
		return value. It is a particularly useful function to avoid
		unwanted oscillations and / or alarms. Example: Alarm on
		current set at 100 A Max with 5% hysteresis. The alarm is
DE1	1	activated at 100 A and is deactivated at 95 A
DEL		Delay time (between 1 sec and 99 min) for activation.
AVG	+	Delay time (between 1 sec and 99 min) for deactivation. Parameter to be used in "DERIV" mode only. Moving window
, w G		width (in secs) used to create a reference value with which
		to compare the instantaneous data
OUT	NORMAL	Alarm remains active during the duration of the event. It
		restores automatically.
	HOLD	Alarm remains active until the manual reset via Modbus.
	PULSE-L	Generates a 500ms impulse when the alarm goes on.
	PULSE-S	Generates a 100ms impulse when the alarm goes on.

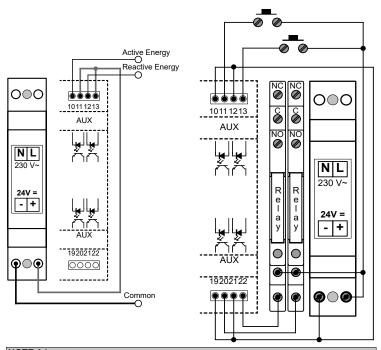
INPUTS - OUTPUTS

SETUP SEQUENCE

PAGE	PARAMETERS	VALUES AVAILABLE	DEFAULT
COUNT WEIGHT Note	A1		
COUNT NEIGHT	IN1		+00001.000
IN1 +00001.000	IN2		+00001.000
IN2 +00001.000			
ABOUNCE CLOSE Not	e A2		
ABOUNCE CLOSE	IN1	1, 5, 50 (ms)	5
INL 5 MS	IN2	1, 5, 50 (ms)	5
IN2 5 MS			
ABOUNCE OPEN Note			
ABOUNCE OPEN	IN1	1, 5, 50 (ms)	5
IN1 5 MS	IN2	1, 5, 50 (ms)	Ę
IN2 5 MS			
INVERT STATUS Note A			
INVERT STATUS	IN1	N, Y	N
INL N	IN2	N, Y	N
IN2 N			
	J		
PULSE OUT Note A4		le	
PULSE OUT	OUT1	N, Y	N
OUT1 N OUT2 N	OUT2	N, Y	N
0012 N			
NORM CLOSE Note A5	I OUT1	N V	
NORM CLOSE	OUT2	N, Y N, Y	I N
OUT1 N OUT2 N	0012	IN, Y	IN
PULSE WIDTH Note A6			
PULSE WIDTH	OUT1	501000 (ms)	100
OUT1 0100	OUT2	501000 (ms)	100
OUT2 0100			1.00
OUTPUTS		INPUTS	
40 04 0 4 /		40 00 0	

			_				
OUTPUTS			INPUTS				
22	02	Output 2 (positive)			11	Input 1 (positive)	
21	C2	Common 2 (negative)		12	C1	Common 1 (negative)	
20	01	Output 1 (positive)			12	Input 2 (positive)	
19	C1	Common 1 (negative)			C2	Common 2 (negative)	

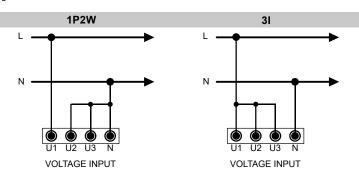
OUTPUTS		INPUTS		
Maximum applicable voltage: 27 Vdc Maximum switchable current: 27mA		Supply voltage (external): from 10 to 30		
		Current consumption:	from 2 to 10mA	
		Max. count frequency	10 or 100Hz	
N.B. Transistor optocoupler digital according to DIN 43864.	outputs (NPN)	N.B. For gas meters a galvanic separation is needed per ATEX standards		

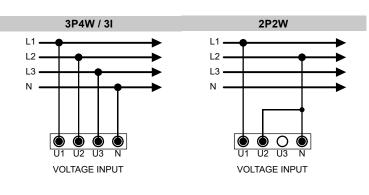


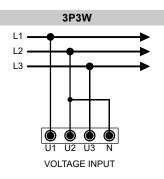
NOTE A1				
Count Weight	Input Weight			
NOTE A2				
Abounce close	Anti-bounce setting on contact closure			
Abounce open	open Anti-bounce setting on contact opening			
NOTE A3				
Invert Status	Inverts the input status			
NOTE A4				
Pulse Out	If set to "Y", set the output as an impulsive one.			
NOTE A5				
Norm Close	Set the output as normally closed.			
NOTE A6				
Pulse Width	Output pulse duration			

VOLTAGE CONNECTION

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







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

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



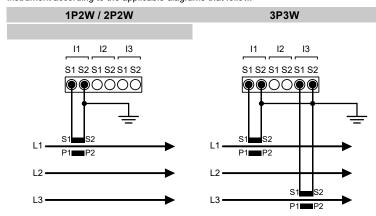
The ExpBus port, configurable via Ethernet port on web pages:

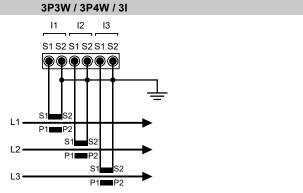
- uses a multicast communication rated at 250kb/sec with collision management
- max cable length: 10 meters
- manages up to 16 modules (but technically can manage up to 126)
- uses the UTP cable, 4 wires used:
 - 2 for the power supply at 9 Vdc
- 2 for the bidirectional communication The modules will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

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

CURRENT CONNECTION

Connect the CT outputs to the terminals marked I1, I2, I3 (CURRENT INPUT) of the instrument according to the applicable diagrams that follow.





Note: Scrupulously respect the matching of phase between the voltage signals and current signals. Failure to comply with this correspondence and connection diagrams gives rise to measurement errors.

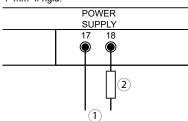
MESSAGE "CFG ERROR"

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



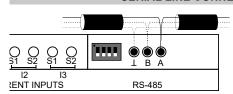
POWER SUPPLY

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.



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

SERIAL LINE CONNECTION



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

Max cable length: 1000 meters.

