

EN
NL
IT

ECP180T

Sealable terminal cover

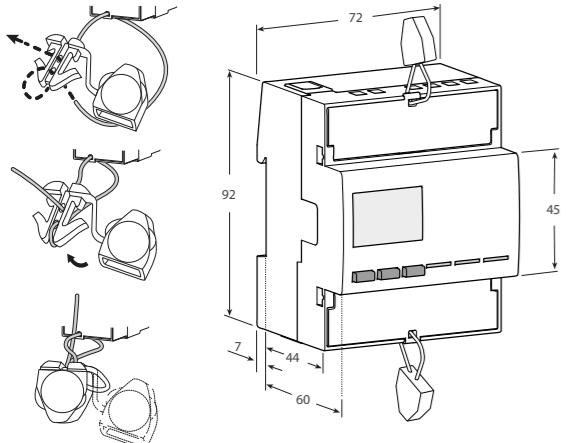
Verzegelbare schroefklemdekapp

Coprimosetto sigillabile

Dimension

Afmetingen

Dimensione



Wiring diagram

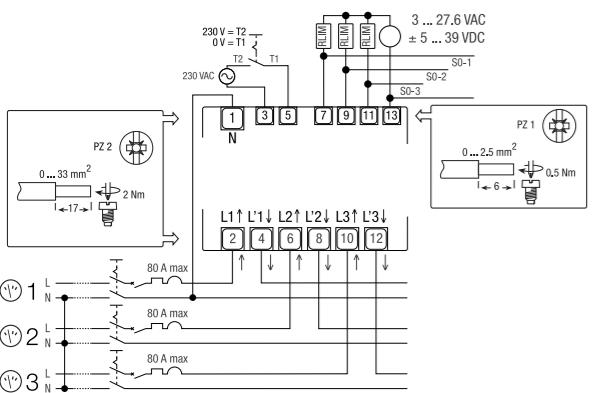
Cable stripping length and terminal screw torque

Aansluitschema

Kabelstriplengte en aandraaimomenten van de aansluitklemmen

Schema di collegamento

Lunghezza di squainatura del cavo e coppia della vite del morsetto



EN

Technical data
Data in compliance with EN 50470-1, EN 50470-3, IEC 62053-21, IEC 62053-23 and IEC 62053-31

General characteristics

Housing	DIN 43880
Mounting	EN 60715
Depth	
Weight	
Operating features	

Connection to single-phase network - number of wires

Storage of energy values and configuration

Tariff for active and reactive energy

Metrological characteristics (according EN50470)

Reference Voltage (U_n)	phase / neutral
Reference Current (I_{ref})	
Minimum Current (I_{min})	
Maximum Current (I_{max})	
Starting Current (I_{st})	

Reference Frequency (f_n)

Number of phases / number of wires

Accuracy

- Active Energies (accord. to EN 50470-3)

- Active Powers (accord. to IEC 62053-21 and IEC 61557-12)

- Reactive Powers (accord. to IEC 62053-21)

Supply Voltage and Power Consumption

Operating Supply Voltage range

Maximum Power Consumption (Voltage circuit)

Maximum VA burden (Current circuit) @ I_{max}

Voltage Input Waveform

Voltage impedance

Current impedance

Overload capability

Voltage continuous

Current temporary (1 s)

Voltage continuous

Current temporary (10 ms)

Measuring Features

Voltage range

Current range

Frequency range

Measured Quantities

Display features

Display type LCD with backlight

Active Energy 7 digits + 2 decimal digits

Voltage 3 digits + 1 decimal digit

Current 2 digits + 2 decimal digits / 3+1 / 4+0

Power factor 1 digit + 3 decimal digits with sign + capac./induc. indic.

Frequency 2 digits + 2 decimal digits

Active Power 2 digits + 2 decimal digits with sign

Reactive Power 2 digits + 2 decimal digits with sign

Apparent Power 2 digits + 2 decimal digits with sign

Running Tariff 1 digit

Display refresh period

Optical metrological LED

3 independent front mounted red LEDs (meter constant) proportional to active imp/ exp Energy

Safety

Overvoltage category

Protective class

AC voltage test (EN 50470-3, 7.2)

Degree of pollution

Operational voltage

Impulse voltage test (Uiimp)

Housing material flame resistance UL 94

IR Connectable Communication Modules

For communication modules

Pulse Outputs (SO signals, acc. to IEC 62053-31)

Pulse Output 1, 2 or 3 selectable

Pulse Rate (number of pulses per kWh) adjustable

Pulse ON duration adjustable

Operating voltage

Pulse ON maximum current in the range 3 ... 27.6 VAC / ±5 ... 39 VDC

Pulse OFF leakage current in the range 3 ... 27.6 VAC / ±5 ... 39 VDC

Isolation class SELV

Tariff

Tariff 1

Tariff 2

Input impedance

Environmental conditions

Storage temperature range

Operating temperature range

Mechanical environment

Electromagnetic environment

Installation indoor only

Altitude (max.)

Humidity yearly average, without condensation on 30 days per year, without condensation

IP rating in built-in condition (front part) terminal block

NL

Technische data
Gegevens conform EN 50470-1, EN 50470-3, IEC 62053-21, IEC 62053-23 en IEC 62053-31

Algemene karakteristieken

Behuizing	DIN 43880
Montage	EN 60715
Diepte	
Gewicht	
Bedieningsfuncties	

Verbinding	naar eenfasig netwerk - aantal draden
Opslag van energiewaarden en config.	Intern flash niet-vluchtig geheugen
Tarief	voor reële en reactieve energie
Metrologische kenmerken (volgens EN50470)	

Referentiespanning (U_n)	1 fase / neutro
Referentie stroom (I_{ref})	
Minimum stroom (I_{min})	
Maximale stroom (I_{max})	
Startstroom (I_{st})	
Referentie frequentie (f_n)	
Aantal fasen / aantal draden	
Nauwkeurigheid	

- Active energie (conform EN 50470-3)	
- Reëel vermogen (conform IEC 62053-21 en IEC 61557-12)	
- Reactief vermogen (conform IEC 62053-21)	
Voedingsspanning en Energieverbruik	

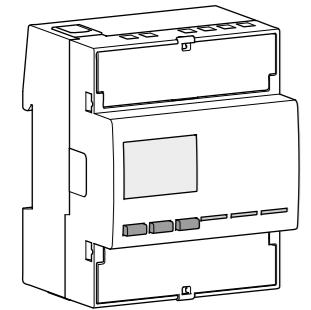
Bedrijfsspanningsbereik	
Maximaal energieverbruik (Spanningscircuit)	
Maximale VA last (stroom circuit) @ I_{max}	
Meetspanningsvorm	
Impedante spanningsingang	
Impedante stroomingang	

Overbelastingscapaciteit	
Spanning doorlopend	
Stroom tijdelijk (1 s)	
Spanning doorlopend	
Stroom tijdelijk (10 ms)	

Meetfuncties	
Spanningsbereik	
Stroombereik	
Frequentiebereik	
Gemeten hoeveelheden	

Display functies	

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(EN)

3x one phase energy meter, direct connection 80 A

with 3 pulse (S0) outputs

User instructions

EU declaration of conformity:
<http://hgr.io/r/ecp180t>



ECP180T

Safety instructions

This device must be installed only by a professional electrician fitter according to local applicable installation standards. Do not plug in or unplug this product when the power supplying is ON. Its use is only permitted within the limits shown and stated in the installation instructions. The device and the equipment connected can be destroyed by loads exceeding the values stated.

Operating principle

This 4 quadrants pulse meter measures the active energy used in an electrical installation.

This device can manage 2 tariffs by 230 VAC digital input.

- Active Energy Class B (according to EN 50470)
- Active Power Class 1 (according to IEC 62053-21 and IEC 61557-12)
- Reactive Energy Class 2 (according to IEC 60253-23)
- Reactive Power Class 2 (according to IEC 62053-21).

This device has a backlit LCD and 3 push-button keys to read Energies, V, I, PF, F, P, Q and to configure some parameters.

Product presentation

LCD display:

T8 $\longleftrightarrow \Sigma$	Energy for all tariffs
T8 Σ	Tariff
T8 $\odot 8$	Selected meter (1, 2 or 3)
T8 $\swarrow \searrow$	Reactive power inductive/capacitive
T8 $\odot 8 \swarrow \searrow$	Main Energy Register, not resettable
T8 $\odot 8$	Partial Energy Register, resettable
T8 $\odot 8$	Units
T8 $\odot 8$	Energy import (consumption \rightarrow) Energy export (production \leftarrow)

Symbols

- 3x one phase
- Protected by double insulation (Class II)
- Backstop: Reversal preventing device

Commands

OK: OK button: is used to confirm a modification of a parameter (or of a digit of a numerical parameter) or to answer to a question

SCROLL: SCROLL button: is used to scroll Menu pages or to modify the whole value or a digit of a parameter

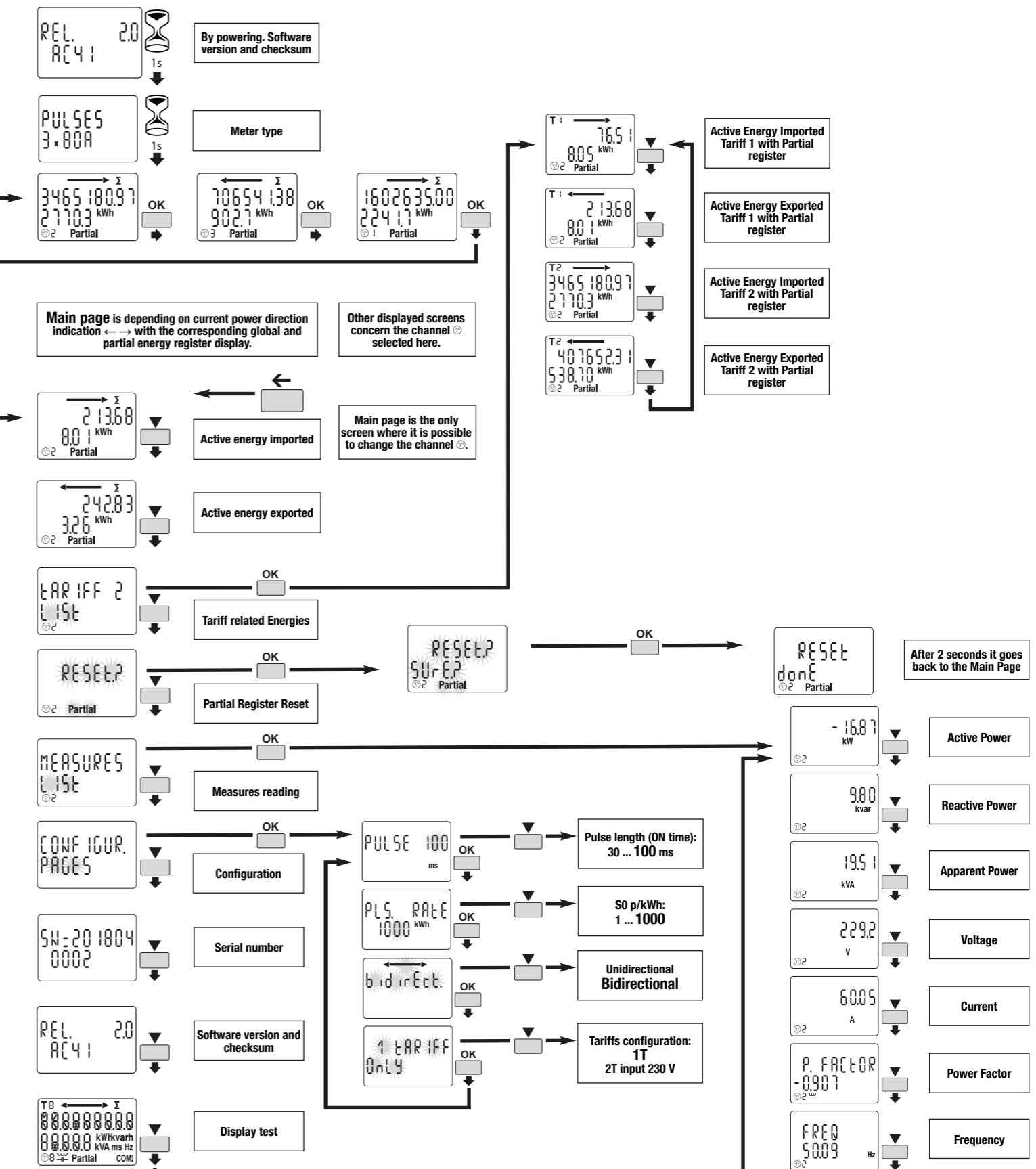
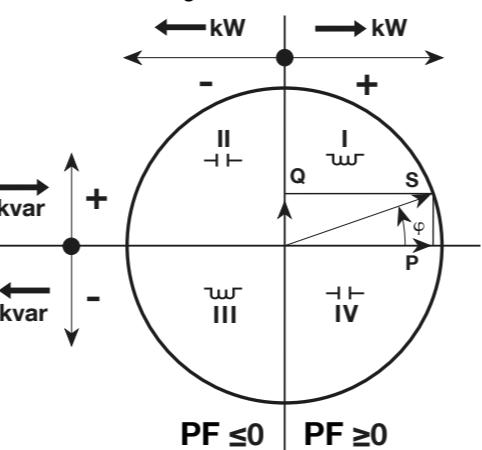
ESCAPE: ESCAPE button: is used to escape to main menu from anywhere or to skip back to the previous digit of the value under modification

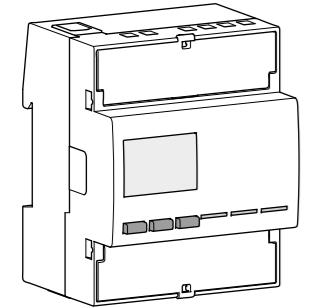
Optical metrological LED

Note:

If no button is pushed for at least 20 seconds the display goes back to the Main Page and the backlight is switched off again.

Power factor Convention according to IEC 62053-23





NL

3x eenfase energiemeter, directe stroommeting 80 A

met 3 puls (S0) uitgangen

Gebruikersinstructies

EU-conformiteitsverklaring:
<http://hgr.io/r/ecp180t>



ECP180T

Veiligheidsinstructies

Dit apparaat mag alleen worden geïnstalleerd door een professionele installateur in overeenstemming met de geldende installatieregels. Sluit dit product niet aan of koppel het niet los bij ingeschakelde spanning. Het gebruik ervan is alleen toegestaan binnen de aangegeven grenzen en vermeld in de installatie-instructies. Het apparaat en het aangesloten apparaat kunnen worden beschadigd door belastingen die de vermelde waarden overschrijden.

Werkingsprincipe

Deze 4-kwadranten pulsmeter meet de actieve energie die wordt gebruikt in een elektrische installatie.

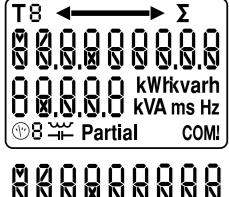
Dit apparaat kan 2 tarieven beheren via de binaire 230 VAC tarief ingang.

- Reële energieklaasse B (volgens EN 50407)
- Reële vermogensklasse 1 (volgens IEC 62053-21 en IEC 61557-12)
- Reactieve energieklaasse 2 (volgens IEC 60253-23)
- Reactieve vermogensklasse 2 (volgens IEC 62053-21).

Dit apparaat heeft een LCD-achtergrondverlichting en 3 druktoetsen om de meetwaarden: V, I, PF, P, Q te lezen en om enkele parameters te configureren.

Productpresentatie

LCD scherm:



Σ Energie voor alle tarieven Tarief

T8 Geselecteerde meter (1, 2 of 3)
Reactief vermogen inductief/capacitief

Hoofdenergieregister, niet opnieuw instelbaar

Gedeelteelijk energieregister, opnieuw instelbaar

Eenheden

Energie-import (consumptie →)
Energie-export (productie ←)

Symbolen

3x één fase

Beschermde door dubbele isolatie (klasse II)

Backstop: apparaat om achteruitrijden te voorkomen

Commando's

OK-knop: wordt gebruikt om een wijziging van een parameter (of een cijfer van een numerieke parameter) te bevestigen of om een vraag te beantwoorden

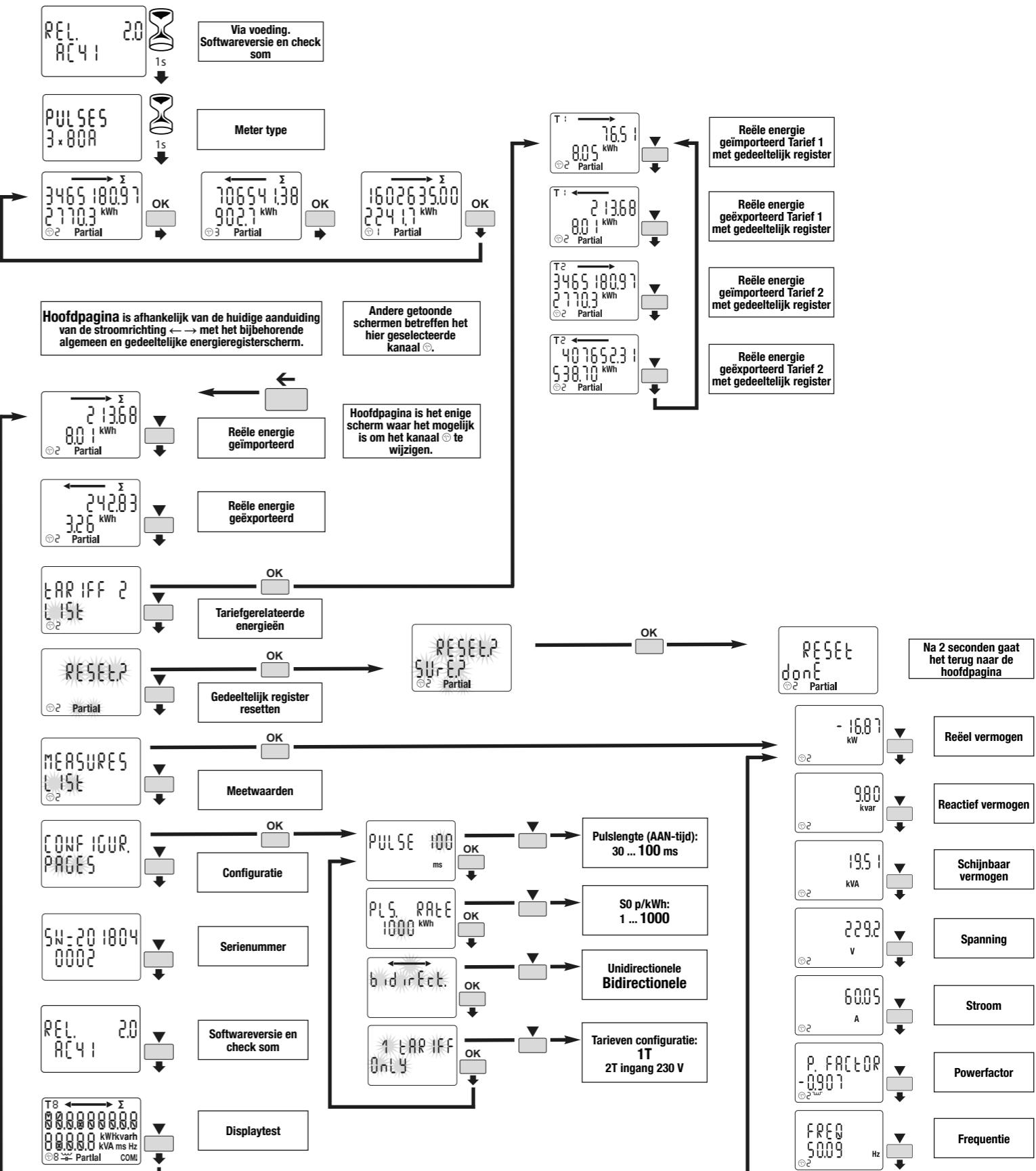
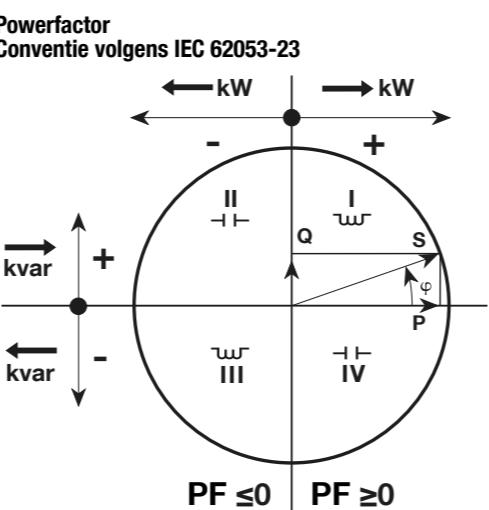
SCROLL-knop: wordt gebruikt om door menupagina's te bladeren of om de hele waarde of een cijfer van een parameter te wijzigen

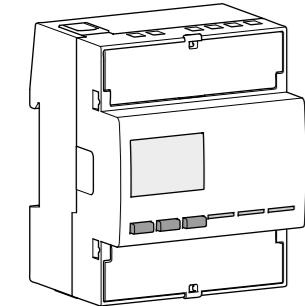
ESCAPE-knop: wordt gebruikt om naar het hoofdmenu terug te gaan of om naar het vorige cijfer van de gewijzigde waarde terug te gaan

Optische metrologische LED

1000 imp/kWh

Opmerking:
Als er ten minste 20 seconden lang op geen enkele knop wordt gedrukt, keert het display terug naar de hoofdpagina en wordt de achtergrondverlichting weer uitgeschakeld.





IT

3 contatori di energia monofase monoblocco, inserzione diretta 80 A

con uscite a 3 impulsi (S0)

Istruzioni per l'utente

Dichiarazione di conformità UE:
<http://hgr.io/r/ecp180t>



ECP180T

Istruzioni per la sicurezza

Questo dispositivo deve essere installato esclusivamente da un elettricista professionista secondo le norme di installazione locali applicabili. Non collegare o scollegare il prodotto quando è alimentato. Il suo utilizzo è consentito solo nei limiti indicati e dichiarati nelle istruzioni di installazione. Il dispositivo e le apparecchiature collegate possono essere danneggiati da carichi che superano i valori indicati.

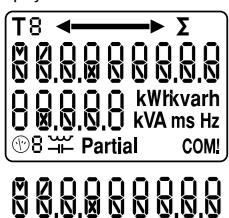
Principio di funzionamento

Questo contatore ad impulsi a 4 quadranti misura l'energia attiva utilizzata in un'installazione elettrica. Questo dispositivo è in grado di gestire 2 tariffe tramite ingresso digitale 230 VAC.

- Classe Energia Attiva B (secondo EN 50470)
 - Classe Potenza Attiva 1 (secondo IEC 62053-21 e IEC 61557-12)
 - Classe Energia Reattiva 2 (secondo IEC 60253-23)
 - Classe Potenza Reattiva 2 (secondo IEC 62053-21).
- Questo apparecchio è dotato di display LCD retroilluminato e 3 pulsanti per leggere Energia, V, I, PF, P, Q e per configurare alcuni parametri.

Presentazione del prodotto

Display LCD:



- T8** Σ Energia per tutte le tariffe
- T8** Σ Tariffa
- T8** Contatore selezionato (1, 2 o 3)
- Σ Potenza reattiva induttiva/capacitativa
- Partial** Registro principale dell'Energia, non resettabile
- Partial** Registro parziale dell'Energia, resettabile
- Unità**
- Partial** Energia importata (consumata \rightarrow) Energia esportata (prodotta \leftarrow)

- Symbol** 3 monofase
- Protetto da doppio isolamento (Classe II)
- Backstop: dispositivo anti inversione

- Comandi**
- OK** Pulsante OK: consente di confermare una modifica di un parametro (o di una cifra di un parametro numerico) o di rispondere a una domanda

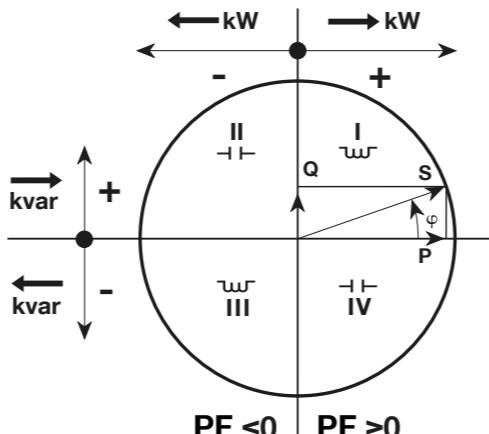
- SCROLL** Pulsante SCROLL: consente di scorrere le pagine del menu o di modificare l'intero valore o una cifra di un parametro

- ESCAPE** Tasto ESCAPE: serve per uscire dal menu principale da qualsiasi posizione o per passare alla cifra precedente del valore in modifica

LED metrologico ottico

1000 imp/kWh

Fattore di potenza Convenzione secondo IEC 62053-23



Nota:
Se non viene premuto alcun pulsante per almeno 20 secondi, il display torna alla pagina principale e la retroilluminazione viene nuovamente disattivata.

