

# VOLTMETRE SI AMPERMETRE DIGITALE

Indicator de tensiune si curent CC / CA / TRMS

CS1-VA

## DESCRIERE

CE

**CS1-VA** este o varianta economica de indicator pentru masurarea cu mare precizie a tensiunilor si curentilor CC, CA si TRMS in gamele de 0~600V si 0~10A.

Optional poate fi echipat cu 1 iesire:

- tip releu sau iesire analogica sau interfata RS 485 (Modbus RTU) cu functii de comanda, alarma, retransmisie sau comunicatie
- releul poate fi programat: Hi/ Lo/ Hi Hld/ Lo Hld\* cu activare temporizata la pornire/ histerezis/ temporizare la activare si dezactivare; temporizare programabila de la 0:00.0 la 9 min.59.0 sec
- \*Hi/ Lo/ Hi Hld/ Lo Hld - superior/ inferior/ mentinut sup./ mentinut inf.



## APLICATII

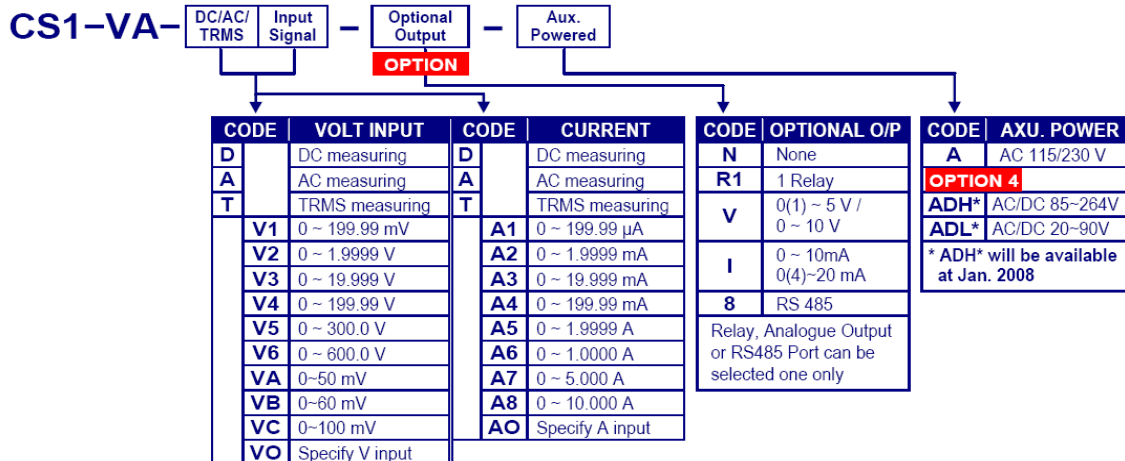
- Panouri automatizare, prelucrare, comutare..., panouri electrice - pentru masurarea tensiunilor si curentilor, alarma si comanda intrare/iesire de la distanta cu PC/PLC
- Verificarea echipamentelor de masurare/alarmare/reglare si comunicarea la PC/PLC

## CARACTERISTICI

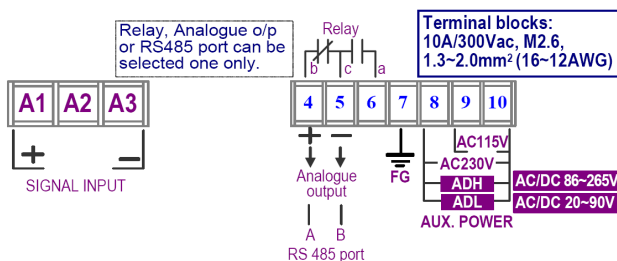
- Intrare V si A: CC / CA / TRMS
- Game intrari: 0~50mV/~600V  
0~199,99µA/~10A
- Precizie masura:  $\leq \pm 0.04\%FS(CC)$   
 $\leq \pm 0.1\%FS(CA/TRMS)$
- Afisaj: LED-uri rosii inalta luminozitate, 5 cifre, h=20mm  
Gama afisare: valori masurate: -19999...+29999  
Gama scalare afisaj: fiecare capat de scala: -19999...+29999  
Reglaj fin digital: fiecare capat de scala -19999...+29999  
Indicare sub/ peste gama de masura: - ovFL/ ovFL  
Punct zecimal: programabil 0/ 0.0/ 0.00/ 0.000/ 0.0000  
Functie de remote display: comandat prin RS 485
- LED-uri semnalizare:
  - 1 rosu - stare releu de iesire
  - 1 portocaliu - stare comunicatie RS485
  - 2 portocalii - stare min hold/max hold
  - 1 verde - functie tasta  $\blacktriangledown$ : PV hold, PV relativ, RESET pentru max. hold/min.hold sau releu mentinut
- Tastatura: 4 taste multifunctionale
- Memorare valori min/max masurate pe timpul alimentarii
- Alte functii: filtru digital, medie, medie mobila, taiere jos (low cut)

- Iesire tip releu: prag programabil
  - 1 releu NI/ND, contacte 5A/230Vca, 10A/115Vca
  - mod activare releu: comparare cu nivel prag
  - programabil Hi/ Lo/ Hi Hld/ Lo Hld
  - functii activare: temporizare la pornire/ temporizare la activare si dezactivare/ histerezis/ activare mentinuta
  - gama temporizare: de la 0:00.0 la 9 min.59.0 sec
  - histerezis programabil: 0...5000 unitati
- Iesire analogica: tensiune: 0~5V, 1~5V, 0~10V (sarcina  $\geq 1000\Omega$ )  
curent: 0~10mA, 0~20mA, 4~20mA (sarcina  $\leq 600\Omega$ )  
precizie  $\leq \pm 0.1\%FS$   
capete de gama setabile -19999...+29999  
reglaj fin digital capete de gama
- Iesire comunicatie: RS 485 protocol Modbus RTU; dist. 1,2 Km
- Rigiditate dielectrica: 2kVca pt.1' intre alim/intr/ies/carcasa  
Rezistenta izolatie  $\geq 100M\Omega$  la 500Vcc intre alim/intr/iesire
- Izolare intre alim./intr./ies. releu, analogica, RS 485
- Conditii de lucru: 0...60°C, 20...95%RH fara condens
- Carcasa: ABS rezistenta la foc
- Grad de protectie: panou frontal IP 54, carcasa IP 20
- Dim.: 96x48x72mm; montaj in panou, decupare 92x44 mm
- Alimentare: 230Vca, 85...264Vcc/ca, 20...90Vcc/ca
- Memorie EEPROM

## ORDERING INFORMATION



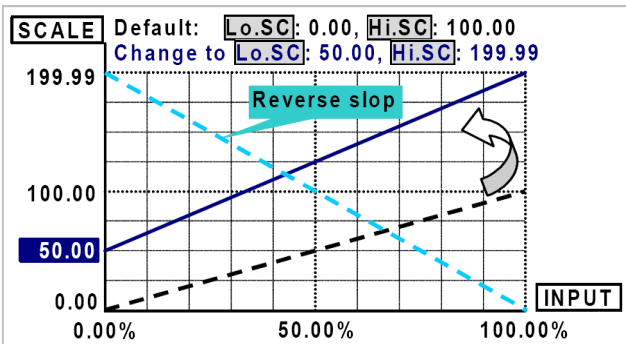
## CONECTARE ELECTRICA



## Specificatii tehnice intrare

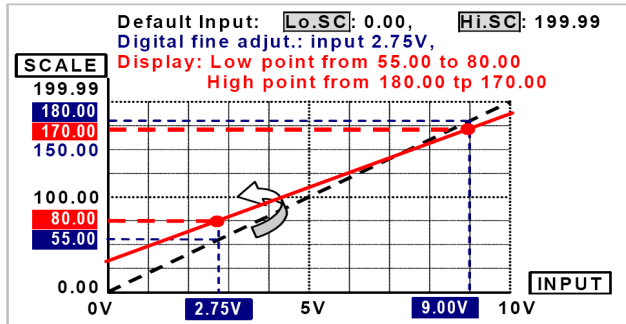
	Gama de masura CC / CA / TRMS	Impedanta de intrare	Gama de masura CC / CA / TRMS	Impedanta de intrare
Tensiune	0~50/~100 mV	$\geq 5 M\Omega$	Curent	0~199,99 µA
	0~199,99 mV	$\geq 5 M\Omega$		0~1,9999 mA
	0~1,9999 V	$\geq 1 M\Omega$		0~19,999 mA
	0~19,999 V	$\geq 1 M\Omega$		0~199,99 mA
	0~199,99 V	$\geq 1 M\Omega$		0~1,9999 A
	0~300,0V	$\geq 2 M\Omega$		0~5,000 A
0~600,0V	$\geq 2 M\Omega$	0~10,000 A	0.05 $\Omega$	
				0.02 $\Omega$
				0.01 $\Omega$

**• FUNCTIE SCALARE**

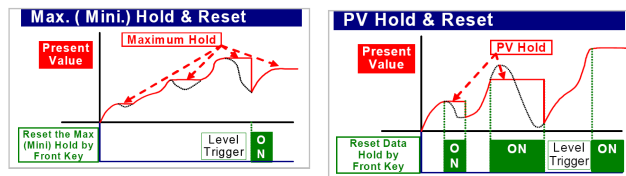


\* Ingustarea scalei poate duce la scaderea rezolutiei.

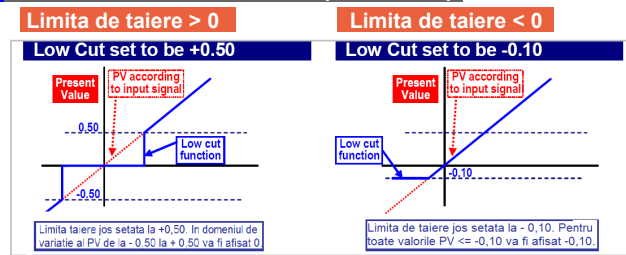
**• REGLAJ FIN DIGITAL**



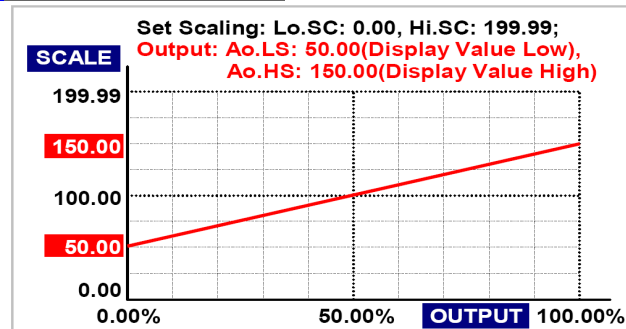
**• FUNCTIA HOLD**



**• FUNCTIE TAIERE JOS (Low Cut)**

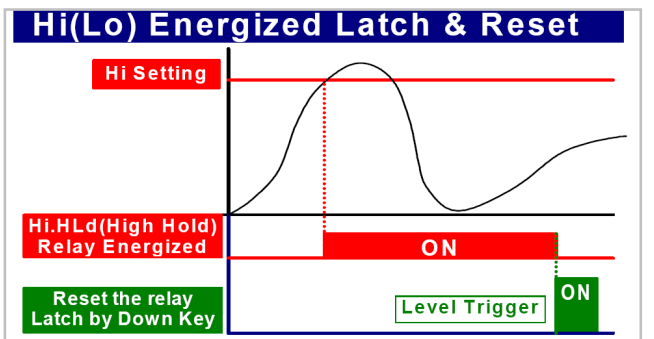
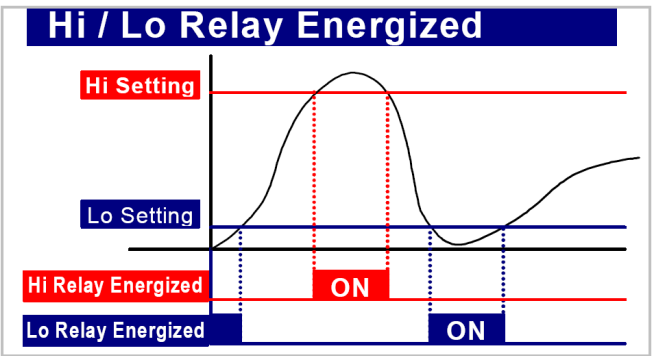


**• IESIRE ANALOGICA**

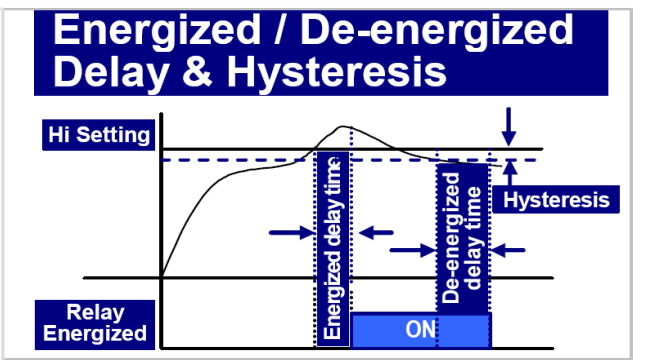
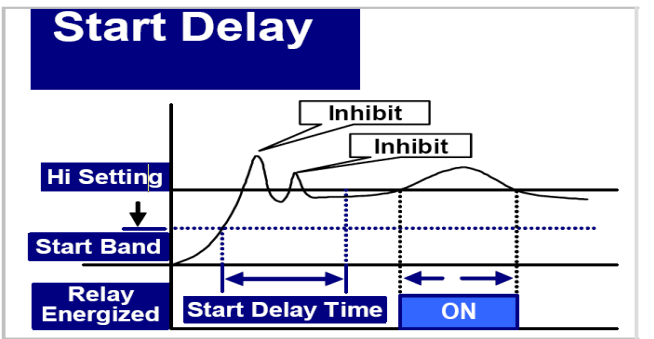


Gama dintre AoHS si AoLS ar trebui sa fie mai mare de 20% din domeniu, altfel rezolutia iesirii analogice va fi micorata

**• FUNCTII RELEE**



**• FUNCTII TEMPORIZARE RELEE**



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