

VOLTMETRE SI AMPERMETRE DIGITALE

Indicator de tensiune si curent CC / CA / TRMS

CS2-VA

■ DESCRIERE

CS2-VA este un indicator pentru masurarea cu mare precizie a tensiunilor si curentilor CC, CA si TRMS in gamele de 0~600V si 0~10A. Standard are incluse 3 intrari de comanda externa (E.C.I.) programabile individual cu functii de PV relativ (tara)/ PV hold/ maximum si minimum hold/ DI (monitorizare de la distanta)/ Reset pentru releele mentinute activat.

Optional poate fi echipat cu urmatoarele tipuri de iesiri:

- 2 sau 4 rele de iesire, 1 iesire analogica si 1 interfata RS 485 (Modbus RTU) cu functii de comanda, alarma, retransmisie sau comunicatie,
- releele pot fi programate: Hi/ Lo/ Hi Hld/ Lo Hld/ Go / DO* 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/ Go/ DO - superior/ inferior/ mentinut sup./ mentinut inf./ validat / iesire digitala

Optional: 3 grupuri de functii foarte flexibile pentru programarea domeniilor de intrare, afisare, punctului zecimal, pragurilor si functiilor releelor alocate fiecarei intrari de c-da externa.

CE



■ APLICATII

- Dulapuri de automatizare, panouri electrice - pentru masurare V si A, alarma si comanda intrare/ iesire de la distanta cu PC/PLC;
- Verificarea echipamentelor de masurare/ alarmare/ reglare, comunicarea cu PC/PLC

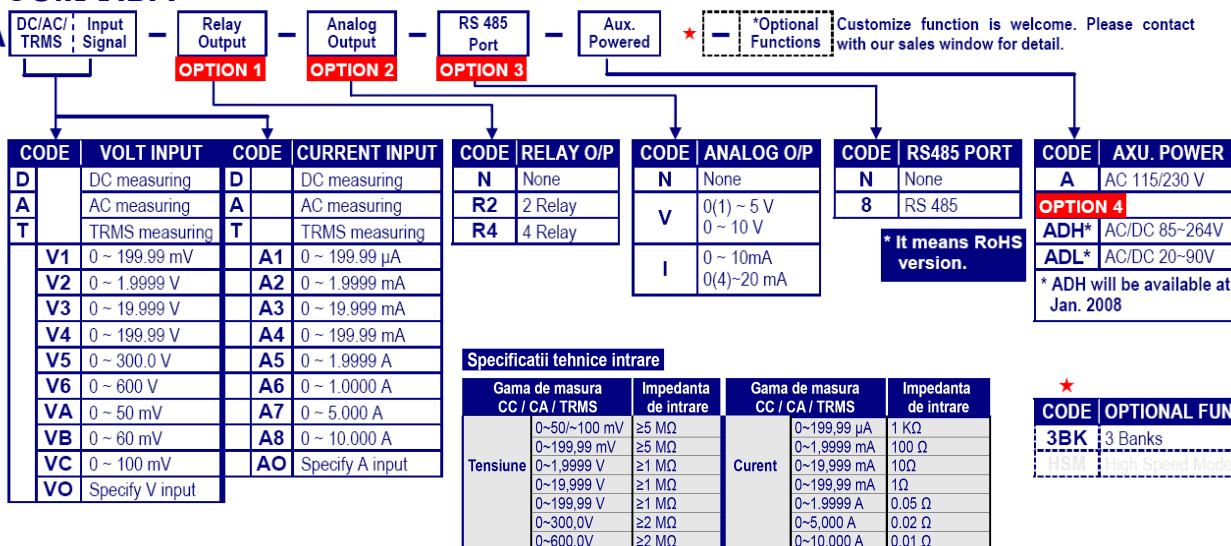
■ CARACTERISTICI

- Intrare V si A: CC / CA / TRMS
- Game intrari: 0~50mV/~600V
0~199,99µA~10A
- Calibrare: calibrare digitala cu tastatura
- Convertor analog/digital: 16 biti rezolutie
- 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: 4 rosii - stari rele de iesire
1 portocaliu - stare comunicatie RS485
3 verzi - stare intrari de c-da externa (ECI)
2 portocalii - stare min/max hold
- Tastatura: 4 taste multifunctionale
- tastele ▲ si ▼ pot fi setate sa opereze ca intrari de comanda externa
- Memorie valori min/max masurate pe durata alimentarii (pornit)
- Alte functii: filtru digital, medie, medie mobila, taiere jos(low cut)
- ECI: 3 intrari tip contact sau colector deschis cu nivel de declansare
- functii: PV hold / PV relativ(tara) / Reset max sau min hold / Reset releu mentinut / DI / Selectare grup de functii

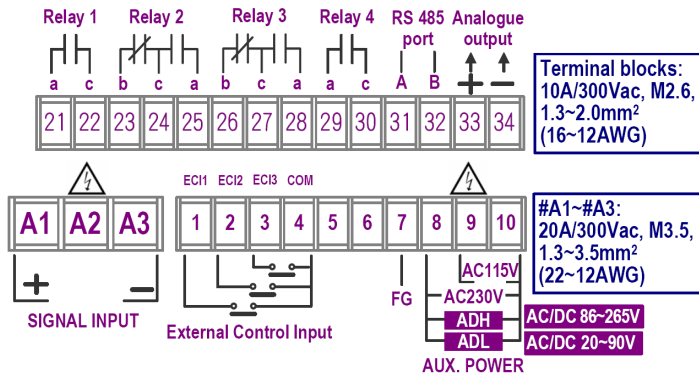
- Iesiri tip releu: 4, praguri programabile individual
- 2 rele NI/ND, 5A/230Vca, 10A/115Vca (releu 2 si releu 3)
- 2 rele ND, 1A/230Vca, 3A/115Vca (releu 1 si releu 4)
- presetare grupuri:
- 4 grupuri de presetari pentru toate functiile releelor corespunzatoare la 4 de programari diferite; selectabile de la tastatura sau prin ECI
- mod activare:
- programabil Hi/ Lo/ Go 12/ Go 23/ Hi Hld/ Lo Hld;
- prin RS 485 comandat de master-functie DO
- 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
curent: 0~10mA, 0~20mA, 4~20mA
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; distanta 1,2 Km
- Rigiditate dielectrica: 2kVca pt.1' intre alim/intr/ies/carcasa
Rezistenta izolat $\geq 100M\Omega$ la 500Vcc intre alim/intr/iesiri
- Izolare intre alim./ intr. / rele/ ies.analogica/ RS 485/ ECI
- Conditii de lucru: 0...60°C, 20...95%RH fara condens
- Carcasa: ABS rezistenta la foc, IP 20; panou frontal IP 54,
- Dim.: 96x48x120mm; montaj in panou, decupare 92x44 mm
- Alimentare: 230Vca, 85...264Vcc/ca, 20...90Vcc/ca
- Memorie EEPROM

■ COD DE COMANDA

CS2-VA

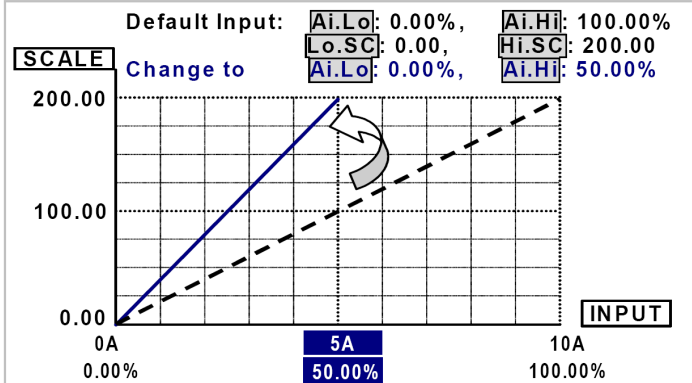


• CONECTARE ELECTRICA



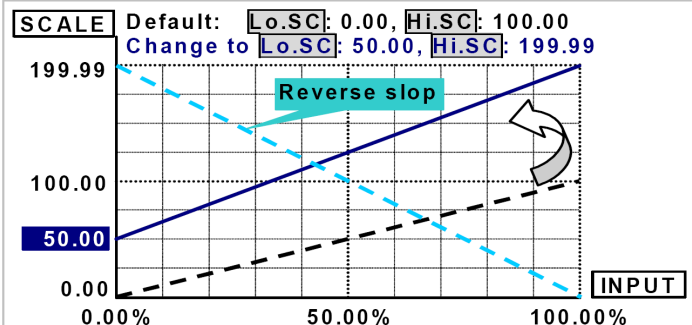
• INTRARE SI FUNCTIE SCALARE

Gama de intrare



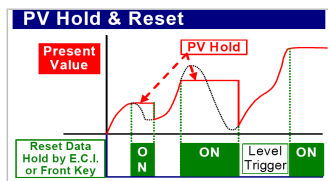
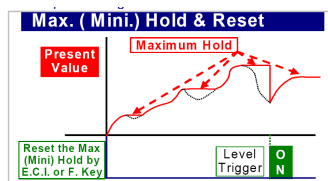
*Setarea poate produce scaderea rezolutiei. Nu este necesara recalibrare dupa schimbarea gamei. Rugam programati o rezolutie mai mica atunci cand semnalul de intrare a fost foarte comprimat.

Funcție scalare



*Îngustarea scalei poate produce scaderea rezolutiei.

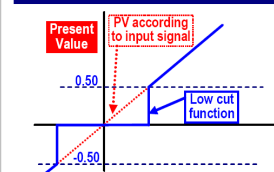
• FUNCTII AFISAJ



Funcție tăiere jos (low cut)

Limita de tăiere > 0

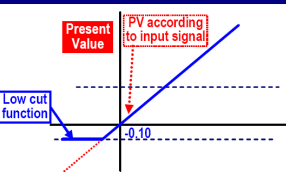
Low Cut set to be +0.50



Limita tăiere jos setata la +0.50. In domeniul de variatie al PV de la -0.50 la +0.50 va fi afisat 0.

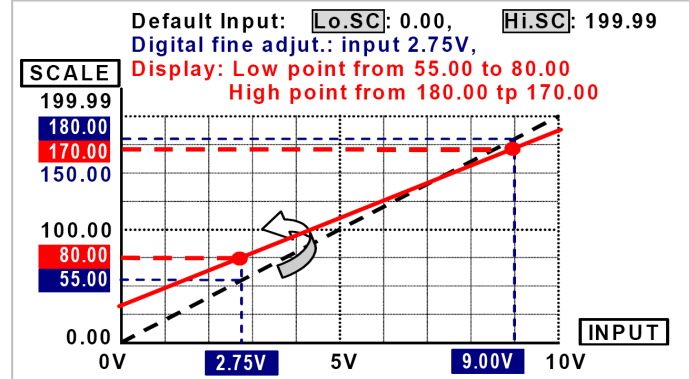
Limita de tăiere < 0

Low Cut set to be -0.10



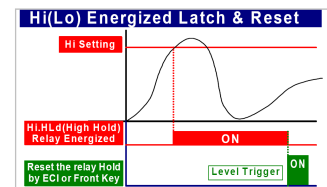
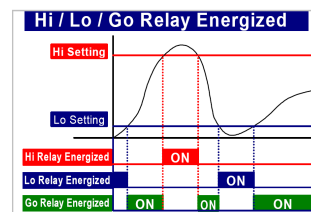
Limita tăiere jos setata la -0.10. Pentru toate valorile PV ≤ -0.10 va fi afisat -0.10.

Reglaj fin digital

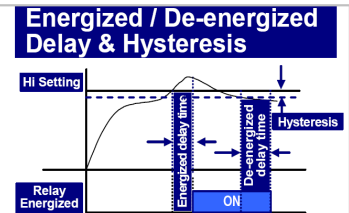
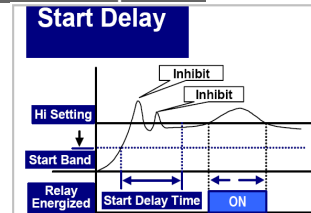


• FUNCTII RLEE

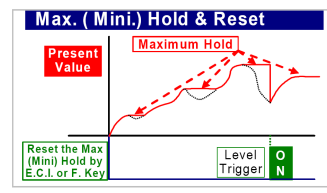
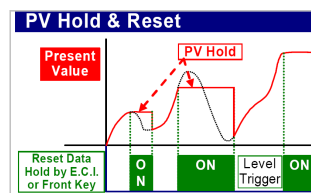
Mod activare



Funcție temporizare

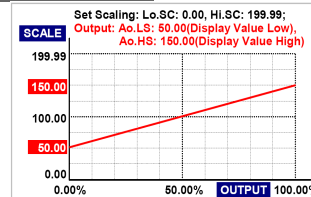


• FUNCTII INTRARI DE COMANDA EXTERNA (ECI)



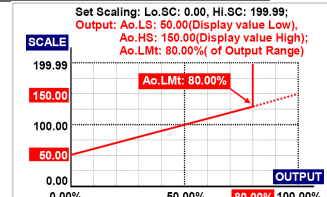
• IESIRE ANALOGICA

Funcție scalare



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

Funcție limitare iesire sus



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