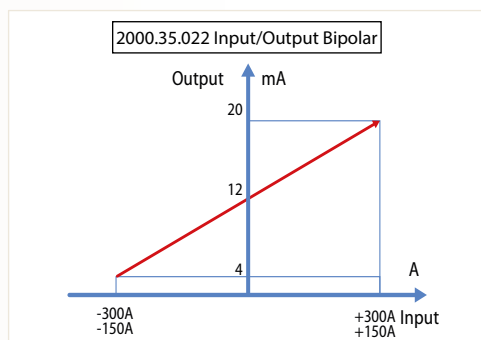
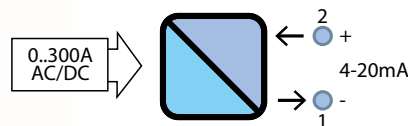
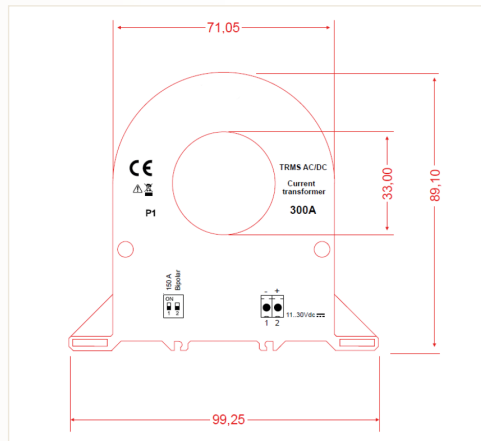


# Current Transformer AC/DC TRMS Loop Powered 2000.35.022

The 2000.35.022 is a AC/DC current transformer, galvanically isolated from the measuring circuit. The device is in the function and appearance very similar to a standard active TA, however, able to measure the DC component and AC RMS. The transformer is powered 4-20mA current loop and therefore does not require a direct power supply. It 's the first Hall's effect current transformer loop-powered with 0.5% accuracy on the market.



**POWER SUPPLY** Passive loop powered, 11 .. 30V, Protections against polarity reversal and overtemperature.

**ABSORPTION** Less then 3,5mA

**PROTECTION INDEX** IP20

**ACCURACY** 0,5% F.S.

**RESOLUTION** 12 bit

**TEMPERATURE COEFFICIENT** < 200 ppm/°C

**WORKING TEMPERATURE** -15 .. +65°

**STORAGE TEMPERATURE** -40°C .. +85°C

**RESPONSE TIME** 1000 ms

**TYPE OF MEASURE** RMS (monopolar) or DC

**RANGE** 300 Arms or 150 Arms dip-switch setting, bipolar (+/- 300A DC o +/-150A DC)

**OUTPUT** 4 .. 20 mA

**BAND WIDTH AT -3dB** DC or 20 .. 2000 Hz

**ISOLATION** 3kV on bare wire

**OVERLOAD** 2k A pulse, 500 A continuous

**CREST FACTOR** 1,4

**HYSTERESIS** 0,2% f.s.

**HUMIDITY** 10 .. 90% not condensing

**ALTITUDE** Up to 2000 m s.l.m.

**WEIGHT** 370 gr

**FILLING** Epoxy Resins

**BOX MATERIAL** PBT, gray

**MOUNTING** Screw predisposition for vertical / horizontal mounting, DIN Rail clips (included) for vertical / horizontal mounting

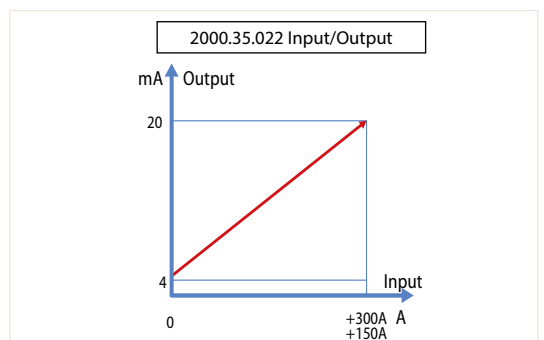
**TERMINAL** Removable terminals 5,08mm

**DIP-SWITCH** 2 poles

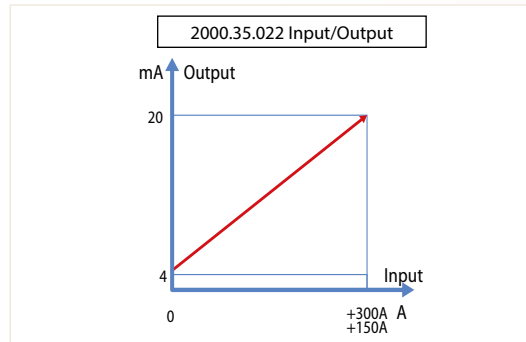
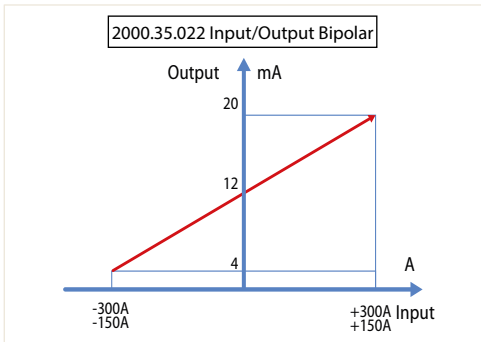
**LED** N°1 yellow (Power on)

**STANDARDS CE** EN55022: 2010-12; EN55024: 2010-11

**DIMENSIONS** 89,1x 99,3 x 28,5 mm (terminal excluded)



# Current Transformer AC/DC TRMS Loop Powered 2000.35.022



The 2000.35.022 has two dip-switches through which you can set the scale to 150 or 300A and select the monopolar or bipolar (see charts), the yellow led near the terminal will indicate the presence of the power supply. Any changes made by dip-switch required to switch off the power supply. It's a safety condition in order to prevent any manumission on the device.

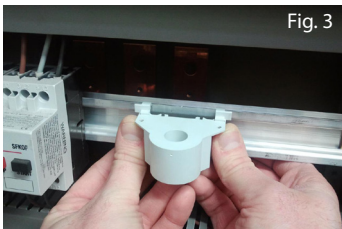
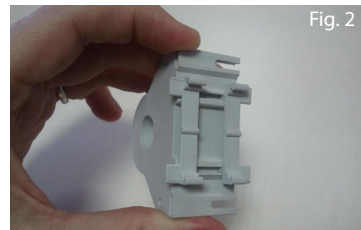
Dip-Switch table:

DESCRIPTION	1	2
MONOPOLAR (TRMS)		0
BIPOLAR (MEAN VALUE) 1		1
300 A	0	
150 A	1	

**CAUTION:** magnetic fields of high intensity can vary the values measured by the transformer. Avoid installation near permanent magnets, electromagnets or iron masses that induce strong changes in the magnetic field. If any irregularity recommend reorient or move the transformer in the area most appropriate.

## MOUNTING:

The current transformer 2000.35.022 can be mounted in any position (see photo below), horizontal or vertical mounting, horizontal or vertical through the two hooks for DIN rail included in the box.



**DIN RAIL MOUNTING INSTRUCTIONS:**  
 To mount the hooks on 2000.35.022. If you want to mount horizontally, use the flexibility of hook to catch into prepared by pressing the center of the clip (fig. 1).

For vertical mounting, slide the hooks into the slots, external holding the two tabs on the clip (fig. 2).

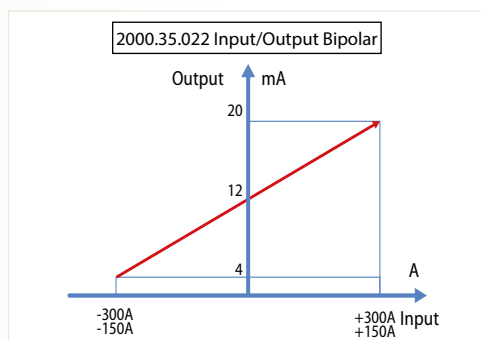
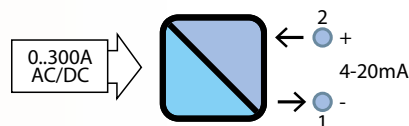
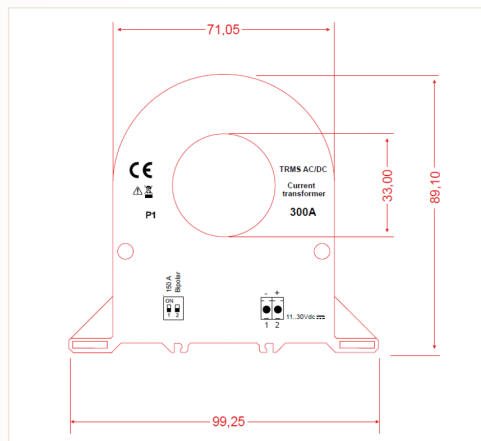
For mounting on DIN rail horizontally, once hooked on the bottom, push with both hands as shown in fig. 3.

For vertical mounting on DIN rail, once hooked on the bottom, push with both hands on the hooks as shown in fig. 4.

To release from DIN rail, use a screwdriver and lever up to release the fins (fig. 5 or fig. 6).

## Trasformatore di Corrente AC/DC TRMS Loop Powered 2000.35.022

Il **2000.35.022** è un trasformatore di corrente continua ed alternata, galvanicamente isolato dal circuito di misura. Il dispositivo è nella funzione e nell'aspetto del tutto simile ad un TA attivo standard, in grado però di misurare la componente continua DC e alternata RMS. Il trasformatore è alimentato in LOOP DI CORRENTE 4-20mA e quindi non necessita di una alimentazione diretta. È il primo trasformatore ad effetto di Hall loop-powered con **precisione 0,5 %** presente sul mercato.



**ALIMENTAZIONE** Loop passivo di corrente, 11 .. 30Vdc, Protezioni per inversione di polarità e sovra temperatura.

**ASSORBIMENTO** Minore di 3,5mA

**GRADO DI PROTEZIONE** IP20

**CLASSE DI PRECISIONE** 0,5% F.S.

**RISOLUZIONE** 12 bit

**COEFFICIENTE TEMPERATURA** < 200 ppm/°C

**TEMPERATURA DI LAVORO** -15 .. +65°

**TEMPERATURA DI STOCCAGGIO** -40°C .. +85°C

**VELOCITÀ DI RISPOSTA** 1000 ms

**TIPO DI MISURA** RMS monopolare o DC

**PORTATE** 300 Arms o 150 Arms impostabili da dip-switch, bipolare (+/- 300A DC o +/-150A DC)

**USCITA** 4 .. 20 mA

**BANDA PASSANTE** a -3dB DC oppure 20 .. 2000 Hz

**ISOLAMENTO** 3kV su cavo nudo

**SOVRACCARICO** 2k A impulsivi, 500 continuativi

**FATTORE DI CRESTA** 1,4

**ISTERESI SULLA MISURA** 0,2% f.s.

**UMIDITÀ** 10 .. 90% non condensante

**ALTITUDINE** Fino a 2000 m s.l.m.

**PESO** 370 gr

**RIEMPIMENTO** Resina epossidica

**INVOLUCRO** PBT

**SISTEMA DI AGGANCIAMENTO** Predisposizione per aggancio verticale/orizzontale con viti, predisposizione per aggancio verticale/orizzontale per barra DIN (clip incluse)

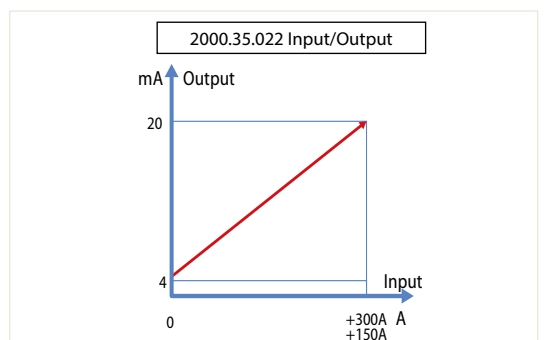
**CONNESSIONI** Morsetto estraibile passo 5,08mm

**DIP-SWITCH** 2 poli

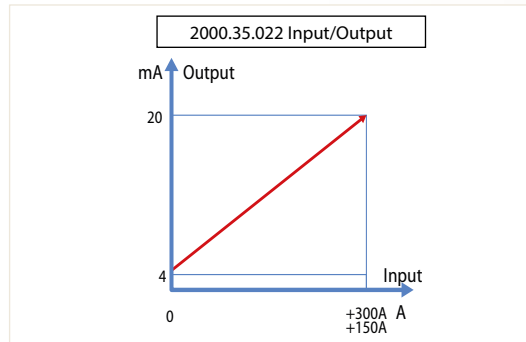
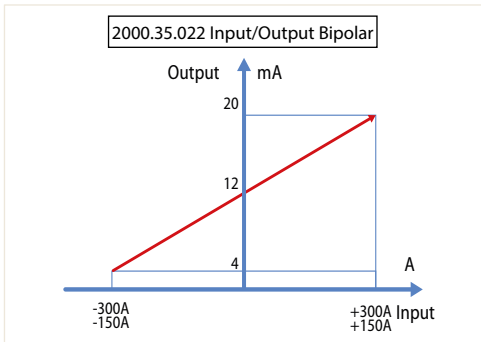
**LED** N°1 giallo, per segnalazione Power-on

**NORMATIVA CE** EN55022: 2010-12; EN55024: 2010-11

**DIMENSIONI** 89,1x 99,3 x 28,5 mm (escluso morsetto)



## Trasformatore di Corrente AC/DC TRMS Loop Powered 2000.35.022



Il 2000.35.022 presenta due dip-switch attraverso i quali potete impostare il fondo scala a 150 o 300A e selezionare la funzione monopolare o bipolare (vedi grafici), il led giallo posto vicino alla morsetteria vi indica la presenza dell'alimentazione.

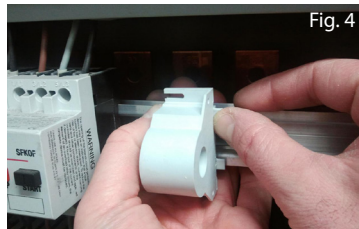
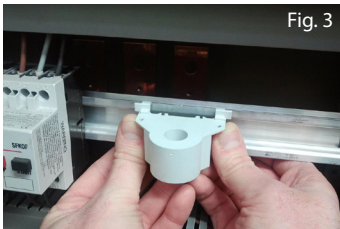
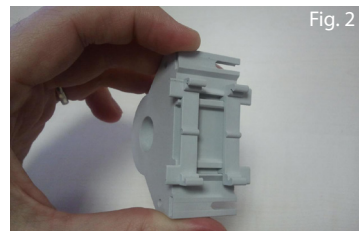
Tabella dip-switch:

DESCRIZIONE	1	2
MONOPOLARE		0
BIPOLARE		1
300 A	0	
150 A	1	

**ATTENZIONE:** campi magnetici di notevole intensità possono far variare i valori misurati dal trasformatore. Evitare l'installazione vicino a magneti permanenti, elettromagneti o masse ferrose che inducano forti alterazioni del campo magnetico. Qualora si manifestassero anomalie consigliamo di orientare diversamente il trasformatore o spostarlo in zona più consona.

### MONTAGGIO:

Il trasformatore di corrente 2000.35.022 può essere montato in qualsiasi posizione (vedere foto in basso), orizzontale o verticale con viti, orizzontale o verticale attraverso i due gancetti per barra DIN inclusi nella scatola.



Prima montare i gancetti sul 2000.35.022.

Se si vuole montare in orizzontale, sfruttare la flessibilità del gancetto per agganciarlo nell'alloggiamento predisposto facendo pressione al centro del gancetto (fig.1).

Per il montaggio in verticale, far scivolare i gancetti nelle guide, tendendo esterne le due alette del gancetto (fig.2).

Per l'aggancio su barra din in orizzontale, una volta agganciato sulla parte inferiore, fare pressione con entrambe le mani come in fig.3.

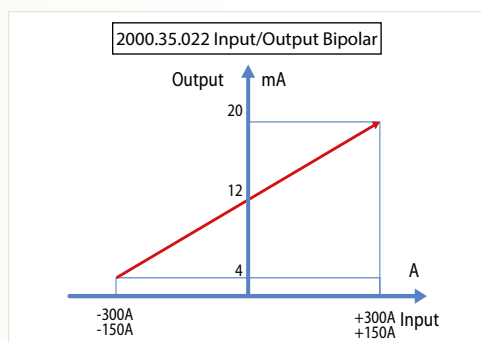
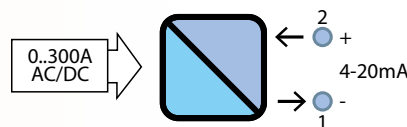
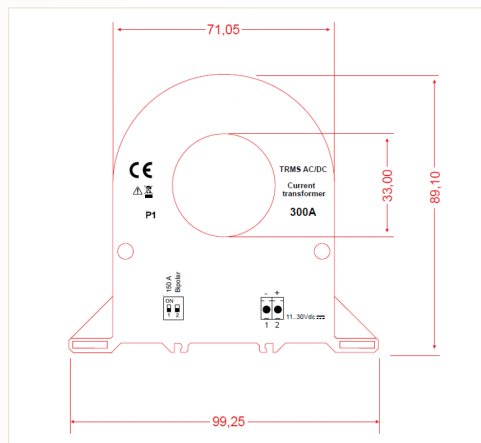
Per il montaggio in verticale su barra din, una volta agganciato sulla parte inferiore, fare pressione con entrambe le mani sui gancetti come in fig.4

Per lo sgancio da barra din, utilizzare un cacciavite facendo leva sulle alette fino allo sgancio (fig.5 o fig.6).



# Transformador de Corriente AC/DC TRMS Loop Powered 2000.35.022

El **2000.35.022** es un transformador de corriente continua y alterna, galvanicamente aislado del circuito de medida. El dispositivo ofrece la función y el aspecto del todo similar a un TA activo standard, en grado también de medir la componente continua DC y alterna **RMS**. El transformador está alimentado en loop de corriente 4-20mA así que no necesita de una alimentación directa. Es el primer transformador a efecto de Hall loop-powered con **precisión 0,5 %** presente en el mercado.



**ALIMENTACION** Loop pasivo de corriente, 11 .. 30Vdc, Protecciones para inversión polaridad y sobre temperatura.

**ABSORCION** Menor de 3,5mA

**GRADO DE PROTECCION** IP20

**CLASE DE PRECISION** 0,5% F.S.

**RESOLUCION** 12 bit

**COEFICIENTE TEMPERATURA** < 200 ppm/°C

**TEMPERATURA DE TRABAJO** -15 .. +65°

**TEMPERATURA DE ALMACENAJE** -40°C .. +85°C

**VELOCIDAD DE RESPUESTA** 1000 ms

**TIPO DE MEDIDA** RMS (monopolar) or DC

**RANGOS** 300 Arms o 150 Arms configurables desde dip-switch, bipolar (+/- 300A DC o +/-150A DC)

**SALIDA** 4 .. 20 mA

**BANDA PASANTE** a -3dB DC o 20 .. 2000 Hz

**AISLAMIENTO** 3kV en cable desnudo

**SOBRECARGA** 2k A impulsivos, 500 continuativos

**FACTOR DE CRESTA** 1,4

**HISTERESIS EN LA MEDIDA** 0,2% f.s.

**HUMEDAD** 10 .. 90% no condensante

**ALTITUD** Hasta 2000 m s.l.m.

**PESO** 370 gr

**LLENADO** Resina epoxídica

**ENVOLTURA** PBT

**SISTEMA DE ENGANCHE** Predisposición para el enganche vertical/horizontal con tornillos, predisposición para el enganche vertical/horizontal para riel DIN (clips incluidos)

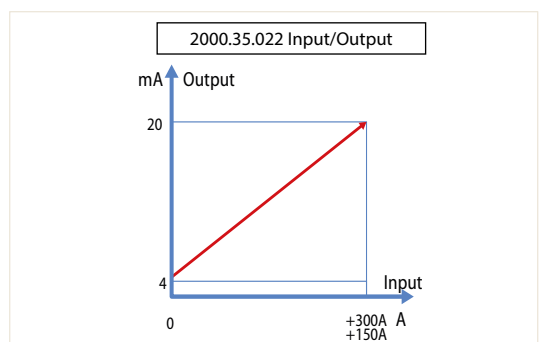
**CONEXIONES** Borne extraíble paso 5,08mm

**DIP-SWITCH** 2 polos

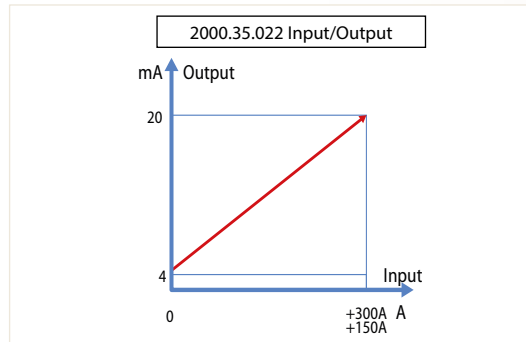
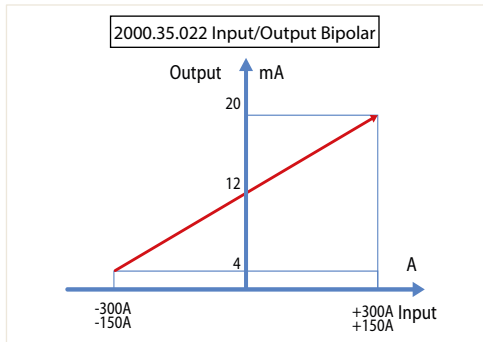
**LED** N°1 amarillo, para señalización Power-on

**NORMATIVA CE** EN55022: 2010-12; EN55024: 2010-11

**DIMENSIONES** 89,1x 99,3 x 28,5 mm (borne excluido)



# Transformador de Corriente AC/DC TRMS Loop Powered 2000.35.022



El 2000.35.022 presenta dos dip-switch a través el cual se puede configurar el fondoescala a 150 o 300A e seleccionar la función monopolar o bipolar (ver gráficos), el led amarillo colocado cerca a la bornera indica la presencia de la alimentación.

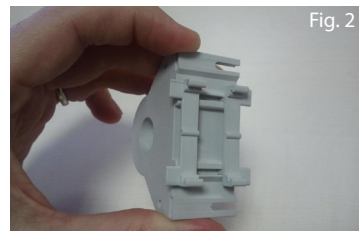
Tabla dip-switch:

DESCRIPCION	1	2
MONOPOLAR		0
BIPOLAR		1
300 A	0	
150 A	1	

**ATENCIÓN:** campos magnéticos de gran intensidad pueden hacer variar los valores medidos del transformador. Evitar la instalación cerca a magnetos permanentes, electromagnetos o masas ferrosas que induzcan fuertes alteraciones del campo magnético. En el caso se manifiesten anomalías aconsejamos orientar en forma diferente el transformador o cambiarlo de zona.

## MONTAJE:

El transformador de corriente 2000.35.022 puede ser montado en cualquier posición (ver foto inferior), horizontal o vertical con tornillos, horizontal o vertical a través de dos ganchos para riel din incluidos en la caja.



Primero montar los ganchos en el 2000.35.022.

Si se quiere montar en horizontal, aprovechar la flexibilidad del gancho para agancharlo en el sitio predispuesto haciendo presión al centro del gancho (fig.1).

Para el montaje en vertical, hacer deslizar los ganchos en las guías, teniendo externas las dos alas del gancho (fig.2).

Para el enganche en riel din en horizontal, una vez enganchado en la parte inferior, hacer presión con ambas manos como en fig.3.

Para el montaje en vertical en riel din, una vez enganchado en la parte inferior, hacer presión con ambas manos en los ganchos como en fig.4

Para el desenganche del riel din, usar un destornillador haciendo palanca sobre las alas hasta desenganchar (fig.5 ó fig.6).