



The EM21 72D can be configured for DIN-Rail or Panel (72x72) mounting

New Energy Meter From Carlo Gavazzi

EM21-72D

Available from
GreenBrook Components



Carlo Gavazzi has launched the world's first compact three-phase energy meter with a patented multi-application detachable display and dual mounting technology. The new EM21-72D can be used either as a basic energy meter or multifunction meter and brings both simplicity and compactness to building management systems and cost-allocation applications.

The MID compliant EM21 is quick and easy to install and occupies just 72 x 72mm on panel doors or four DIN units on the rail. The self-powered meter features "Easyprog" simplified programming and automatic adoption of the display to the selected application. Carlo Gavazzi's patented detachable display - the first on the market - requires no batteries or electrical connections, simply plugging into the base unit via one of the two possible slots. The LCD also gives a visual warning if incorrect phase sequence is detected.

Seven sets of three variables can be selected for display, providing for active and reactive energy measurement or a complete set of variables. Options include: system variables such as W, var, PF, Hz and phase-sequence; single-phase variables including A, VLL, VLN, PF; TRMS measurements of distorted sine waves; and energy measurements (total kWh and kvarh).

As standard, an OPTOMOS FET pulse output provides fast and easy data transmission to PCs and PLCs for energy monitoring, whilst all electrical parameters of the installation can be sent via the optional RS-485 port for integration with BMS (Building Management Systems) and other standard acquisition-monitoring systems.

Instantaneous variables are displayed as 3 x 3 digits, with energy meter readings to 6+1 digit resolution. Accuracy is $\pm 0.5\%$ RDG (V, A), and the meter is rated Class B according to EN50470-3 (class 1 of EN62053-21), Class 2 (kvarh) according to EN62053-23. The meter is fully compliant with the Measuring Instruments Directive (MID) annex MI-003.

Operating temperature range is from -25 degrees C to +55 degrees C and the front panel offers IP50 protection against dust and water ingress.

Contact us now for further information or
to arrange to see this Brand New Meter !

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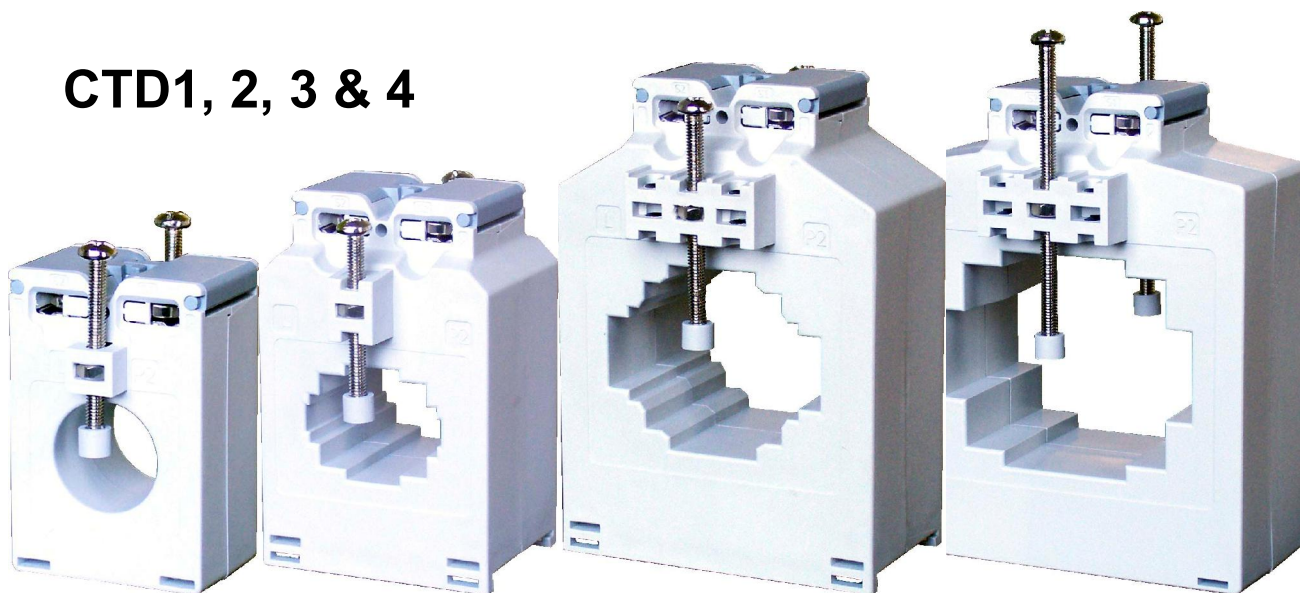
Carlo Gavazzi – New Current Transformers for Efficient Energy Management



The CTD Series has been introduced by Carlo Gavazzi.

It comprises four new models, one for cables and three for bus-bars, providing measurements from 40A to 1600A. With Industry Standard 5A and 1A outputs, they are compatible with all the company's energy management products, digital panel meters, and suitable for both Motor Control and Power Control and Energy Monitoring Centres.

CTD1, 2, 3 & 4



Designed for DIN-Rail mounting and Panel installations, the CTDs can be attached to existing wire terminals, using multiple isolated screws on the secondary to ensure strong and reliable attachment to any bus-bar, with up to eight-wire connection. Easy-to-connect output and earth, together with sealable terminal-block covers, guarantee maximum safety protection.

Current transformer output can be bridged without changing connection of the secondary: this feature prevents output over-voltage during installation or maintenance.

All models offer Class 0.5 measurements to EN60044-1 standards. The CTD-1X is designed for cables and bus-bars up to 23mm diameter, with input rating up to 300A, whilst the CTD-2X, CTD-3X and CTD-4X devices are designed for 32mm x 5mm, 51mm x 15mm or 64mm x 20mm bus-bars, providing measurements of 40-600A, 50-1200A or 150-1600A respectively. Secondary current ratings are 5A or 1A across the range.

Operational over the full -25C to +60C temperature range, the units offer protection to IP20 standards with sealed terminal block covers and terminals

Typical Part Number
CTD-2X1005AXXX
100A/5A CTD series 2 for BUSBARS

Use in combination with
New Energy Meters
EM21-72D, EM24 and WM14-96

Contact GreenBrook now for further information or
to arrange a sample of these New CTs

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