

- **Accurate and versatile digital timer and frequency meter**
- **Compact and lightweight instrument**
- **Ideal for high voltage substation and industrial environment**

A P P L I C A T I O N

The CSP/21-FH digital timer and frequency meter is a general purpose instrument for measuring time or time interval. The instrument can also measure the frequency of the mains or from an external source.

CSP/21-FH SPECIFICATION

Range

Time range: 99.999 s. or 999.99 s., selectable by switch.

Accuracy

Accuracy: ± 0.1 s. ± 1 digit.

Time base controlled by a 10 MHz crystal quartz oscillator with an overall stability of 0.01%.

Inputs

Four inputs are available for Start and Stop, permanent or pulsed:

- . Two for voltage free contacts;
- . Two for wet contacts, with voltage in the range from 24 to 220 V AC or DC.

- . Pick-up or drop-off of the voltage.;
- . Normally Open or Normally Close contact selection.

Frequency meter

Frequency range: 40 to 60 Hz. Amplitude: 3 V AC ± 10 %.

Sensitivity: 0.01 Hz. Accuracy: $\pm 0.1\%$ ± 1 digit.

Display

Display: five digits LED display, 6 mm high.

Power supply

Power supply: 230 V - 50 or 60 Hz.

Power consumption: 10 VA.

Case

Plastic case with handle

Weight and dimensions

Weight: 2.8 kg. Dimensions: 190 x 180 x 70 mm.

Protections

Fuse on power supply.

Accessories supplied with the unit

Transport bag. Power supply cable.

Operating Manual. Instruction and maintenance manuals.

APPLICABLE STANDARDS

Electromagnetic compatibility

Directive no. 89/336/CEE dated May 3, 1989, modified by the directive 92/31/CEE dated May 5, 1992. Applicable Standards: EN 50081-2; EN 50082-2; EN 55011; EN 61000-3-3; EN 50082-2; ENV 50140; ENV 50141; ENV 50204; IEC 1000-4-2; IEC1000-4-4; IEC 1000-4-6; IEC 1000-4-8.

Low voltage directive

Directive n. 73/23/CEE, modified by the directive 93/68/CEE.

Applicable standards, for a class I instrument, pollution degree 2, installation category II: CEI EN 61010-1.

In particular:

- . Operating temperature: 0 - 45°C; storage: -25°C to 70°C.
- . Relative humidity: 10 - 80% without condensing.

Measurement type

The measure starts or stops for:

- . Opening or closure of the contact;



Measuring Instruments

CODE	MODULE
90029	CSP/21-FH with plastic carry bag