



# ELAP

## CM 72/73/74

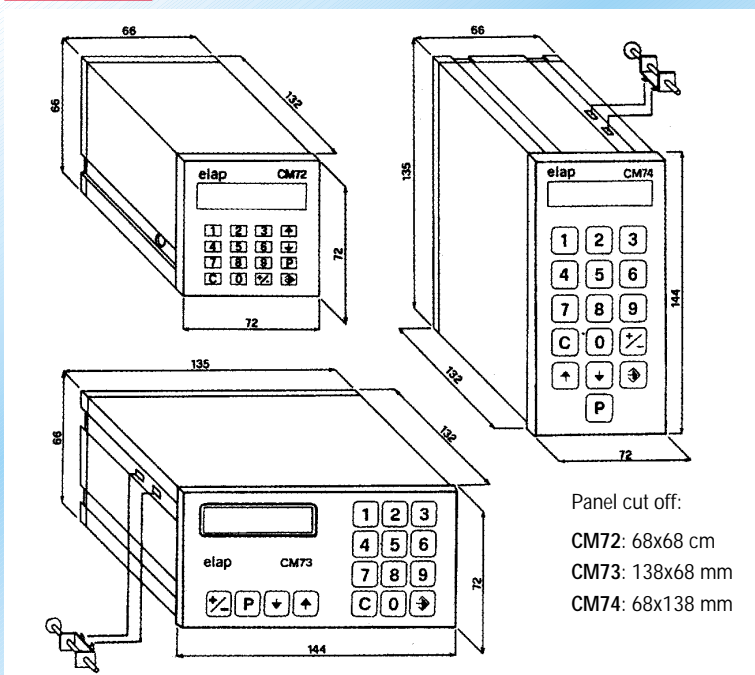
### MICROPROCESSOR

### MULTIFUNCTION

### POSITIONERS

CM 72 - CM 73 - CM 74 are a series of microprocessor instruments which, thanks to their versatility, find a lot of possible employments in the field of counting and positioning control: the large number of available application software can fulfil all particular requirements. Easy to install, immediately usable by the operator and equipped with a full technical documentation support CM72, CM73 and CM74 can be supplied either in the positioner version or as multipreset counters. Rotary encoders, incremental linear transducers or potentiometers can be employed as input elements for these instruments. One of the positioners peculiarities consists in their analogue output  $\pm 10$  V which can operate a regulation allowing the direct control of the motor drive system, thus ensuring an accurate and fast reach of the preset measuring values. Very accurate "step positionings" are also achieved by CM72, CM73 and CM74 with relay outputs only. The wide polycarbonate keyboard with well distinguishable keys of types CM73 and CM74 will be surely appreciated by the operators, while CM72 will be mainly appreciated because of its small dimensions. A further interesting characteristics of these instruments is their optional output RS232 which allows the system to transmit and receive the positioning data from an external source (PC, PLC, process controllers) or to be connected point to point with other CM72, CM73 or CM74. **Complying with CE standards**

#### DIMENSIONS



#### TECHNICAL SPECIFICATIONS

- Supply voltage: 220 or 110 or 24 V, 50/60 Hz  $\pm 10\%$
  - Transducer supply output 12 Vdc  $\pm 5\%$  max 70 mA
  - Count frequency: 4 KHz primary wave
  - 4 relay outputs type S.P.S.T. with max 1 3A V max 220 Vac
  - Analogue output  $\pm 10$  V (8 bit) with deceleration ramp
  - Analogue or digital count inputs
  - 2 auxiliary inputs accept signal PNP or NPN (selectable)
  - CURRENT LOOP serial input 20 mA (passive) or RS232
- Transmission protocol:
- |                     |           |
|---------------------|-----------|
| Data bit no.        | 8         |
| Stop bit no.        | 1         |
| Parity              | no one    |
| Transmission speed: | 1200 baud |
- Data stored in EEPROM
  - High definition display: digit h 7 mm
  - Antiscratch polyester keyboard
  - Extractible terminal box, accessible from rear
  - Dimension: CM 72 72x72x146  
CM 73 144x72x146  
CM 74 72x144x146

#### TYPICAL APPLICATION

##### EXAMPLES

Control of a cut line with 9 preset measures, singularly recalled through the keyboard; manager of the positioning parameters and motor control by means of the relays.

Control of a production cycle with measures preset by keyboard, and approaching speed managed by analogue output for the direct control of a drive system, with play recovery and tolerance parameters.

