

art.VDQ/MC235.01/...

art.VDQ/HA217.01A/...

Multi-function dimension Visualizers

The **MC235.01** dimension visualizer with the aid of an **incremental Encoder**, to fit on the prepared shank of the trapezoidal screw, is a simple and effective instrument **for visualizing the positions of manual manoeuvring of our Groups with decimal precision** in reference to the pitch tolerance of our trapezoidal screws.

This type of Visualizer has some technical features that make it multi-functional; it has a resolution multiplier of up to three decimal digits and two programmable inputs for zeroing, loading preset or sum/subtract of a value from the count. It is usually shipped in the **standard version with power required of 24 Vac** (to be used with a transformer) or on request in the optional versions of 110 Vac (again to use with a transformer) or 220 Vac to use directly connected to the power supply. The Visualizer has a virtually inexhaustible memory that allows the retention of saved data even if it is switched off for long periods. With the connection to the Encoder, should an unexpected interruption to the power supply happen with the risk of the handwheel/carriage moving; upon restarting we would have the same data but it is not in fact real. In order to avoid the problem we recommend the attaching the Visualizer to an **Uninterruptable Power Supply (UPS)** that maintains constant power even in cases of sudden loss of the main power supply and thereby allowing time for the screw to be locked using the **Locking Flange** purposely fitted to the Handwheel.

The **HA217.01A** dimension Visualizer is indispensable for the use of **Absolute Potentiometric Transducers** in that it allows the **visualization of positions of manual manoeuvres made by our Groups with centesimal precision** without losing the exact position in that the visualization come from the direct reading of the Transducer, which being "absolute" renders any movement of the handwheel/carriage whilst the machine is switched off irrelevant.

Art.VDQ/MC235.01/... (for incremental Encoder)

Visualizer mounted in orientable housing or on fitting bracket.
(For ordering the Visualizer complete with orientable housing and accessories see page 58)

Art.VDQ/HA217.01A/... (for Absolute Transducer)



MC235... SPECIFIC FEATURES

Digital input and counting Optoisolated inputs

- **Max frequency:** 15/20/50/200 kHz
- **Polarisation:** NPN/PP/LD
- **Nominal power:** 3,5/5/12/24 Vdc



HA217... SPECIFIC FEATURES

Analogue inputs

- **Types of inputs:** Potentiometric, amperometric, voltmeter.

Serial Connections

- **Types of serial:** RS232/RS422/RS485

COMMON FEATURES OF MC235... and HA217... VISUALIZERS

GENERAL FEATURES

- **Dimension of front panel:** DIN 43700 96Hx48W mm
- **Weight (max hardware configuration):** 550g
- **Power supply (Valim):** 24/110/220Vac-50Hz, 24Vdc
- **Absorption max:** 12 VA
- **Power delivered:** 5/12 Vdc – 130 mA ±4%
- **Memory:** Semiconductor, non volatile
- **Display:** 6 digit h = 14mm + 1 digit h = 8mm (7 segments)
- **Led:** 4 system
- **Keys:** 4 mechanical keys /bubble (+, -, CLEAR, ENTER)
- **Connectors:** Removable screws and polarized
- **Front panel material:** Polyester Autotype Autoflex EBA180
- **Container material:** Self extinguishing Noryl

ENVIRONMENTAL CONDITIONS

- **Operating temperature:** 0-40°C
- **Degree of frontal protection:** IP51 (conforms to EN60529)
- **Relative humidity:** 90% without condensing
- **Altitude:** 0-2000 m s.l.m.

DIGITAL INPUTS

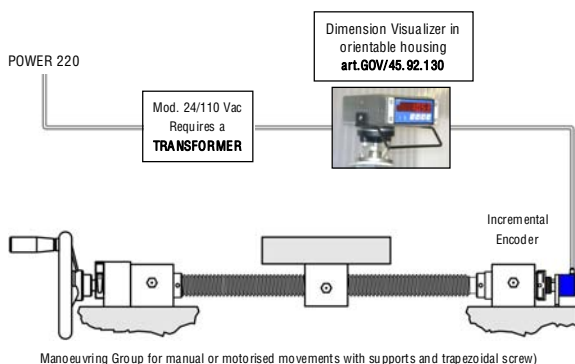
- **Polarisation:** NPN/PPNP
- **Nominal power:** 12/24 Vdc

STATIC OPTOISOLATOR OUTPUTS

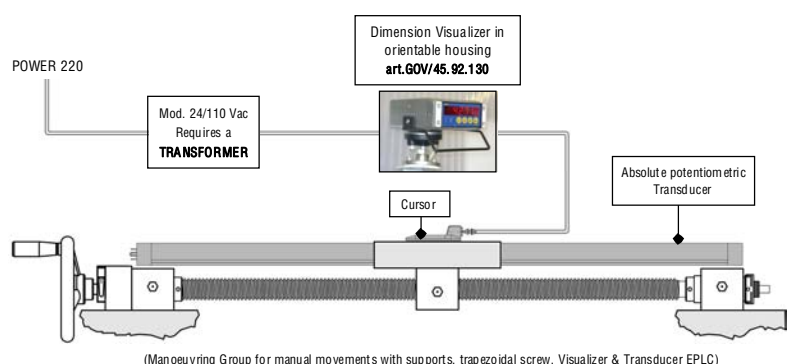
- **Switchable load:** ac/dc (NPN-PNP)
- **Max voltage:** 24/110 Vac/dc
- **Max current:** 70/200 mA



Example of application with MC235... Visualizer with incremental Encoder:



Example of application with HA217... Visualizer with Absolute Potentiometric Transducer:



MODEL	CODE (Visualizer without housing and accessories)	ARTICLE	CODE (Visualizer without housing and accessories)	ARTICLE	WEIGHT (Kg)
STANDARD	30CSCVV000	VDQ/MC235.01/24	30CSCVV100	VDQ/HA217.01A/24	0,550
OPTIONAL	30CSCVV001	VDQ/MC235.01/110	30CSCVV101	VDQ/HA217.01A/110	0,550
OPTIONAL	30CSCVV002	VDQ/MC235.01/220	30CSCVV102	VDQ/HA217.01A/220	0,550