

## Description

The E-module, type series 1286 and 1289 is for the manual or automatic setting or control of motorized valves, hence for GEMÜ type series 413/418, 613/618 and 693/698.

**GEMÜ®**

## E-module 3-Point controller

## Construction and Function

The E-module compares the required value, which is set by an integral or separate potentiometer, or by a standardized signal (0/4 to 20 mA), with the actual detected value from the motorized valve.

The valve adjustment "open" and "closed" is initiated by a potential-free relay. This energizes the valve actuator until the difference between the actual and required value setting is less than the control hysteresis, i.e. it readjusts the valve position.

Over the whole of the control range, switching points are adjustable as minimum and maximum values by means of a potentiometer. These points are indicated by LED's and the presence of the supply voltage is also indicated by a mains LED.

In addition, on the type 1289 the actual travel of the valve is shown by a chain of LED's in the form of a rising column of light. By linking an internal bridge the set value (required value) can be indicated.

The module provides a standardized output signal which can be 0 to 20 mA or 4 to 20 mA. This output signal can be used for external indication or for further processing of the signal corresponding to the valve position.



**Type 1286**

## Types of Design

**Type 1286** Eurocard for 19/24" rack with 31 pole terminal strip complying with DIN 41617

**Type 1289** Eurocard for 19/24" rack with 31 pole terminal strip complying with DIN 41617 and **additional LED indication** (light column)

The width and height of the module are 8 TE and 3 HE respectively. For individual mounting in the control cabinet the socket base type 1290 is used.



**Type 1289**

