


# Setpoint modules MPZ

Technical data

FESTO

## Setpoint module MPZ

-  - Voltage  
20 ... 30 V DC

### Function

- Generation of 6+1 analogue setpoint values for the proportional pressure regulators MPPES, VPPM, VPPE and MPYE
- Digital activation
- Output voltage adjustable via spindle potentiometer



| General technical data         |                    |   |             |
|--------------------------------|--------------------|---|-------------|
| Mode of operation              |                    | Digital/analogue circuit with analogue output |             |
| Electrical connection          |                    | Screw terminal                                |             |
| Connection cross section       | [mm <sup>2</sup> ] | 2.5   |             |
| Operating voltage range        | [V DC]             | 20 ... 30                                     |             |
| Adjustable output voltage      | [V DC]             | 0 ... 10                                      |             |
| Max. output current            | [mA]               | 27  |             |
| Power consumption at 24 V DC   | [W]                | 1.5   |             |
| Supply for setpoint adjustment | Voltage            | [V]   | 10 ... 10.6 |
|                                | Current            | [mA]  | 6 ... 6.36  |
| External setpoint input        | Voltage            | [V DC]  | 0 ... 10    |
|                                | Potentiometer      | [kΩ]  | 2.5 ... 10  |
| Setpoint activation            | Input resistance   | [kΩ]  | 3           |
| Residual ripple                |                    | [%]   | Max. 10     |
| Display                        | Ready              |   | Green LED   |
|                                | Setpoint active    |   | Yellow LED  |
| Type of mounting               |                    |   | On H-rail   |
| Mounting position              |                    |   | Any         |
| Product weight                 | [g]                |   | 80          |

| Operating and environmental conditions                   |      |                                   |
|--|------|-----------------------------------|
| Ambient temperature                                      | [°C] | 0 ... 60                          |
| Corrosion resistance class CRC <sup>1)</sup>             |      | 2                                 |
| CE marking (see declaration of conformity) <sup>3)</sup> |      | To EU EMC Directive <sup>2)</sup> |
| Protection class   |      | IP20                              |

- 1) Corrosion resistance class CRC 2 to Festo standard FN 940070  
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.
- 2) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: [www.festo.com/sp](http://www.festo.com/sp) → Certificates.  
If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.
- 3) Additional information [www.festo.com/sp](http://www.festo.com/sp) → Certificates.

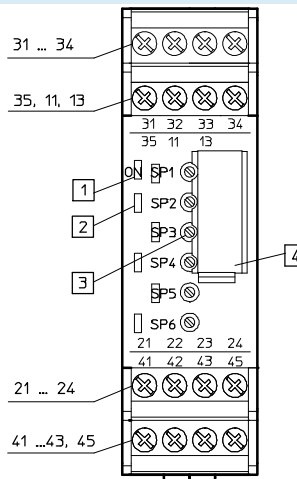
# Setpoint modules MPZ

Technical data



## Connections and control elements

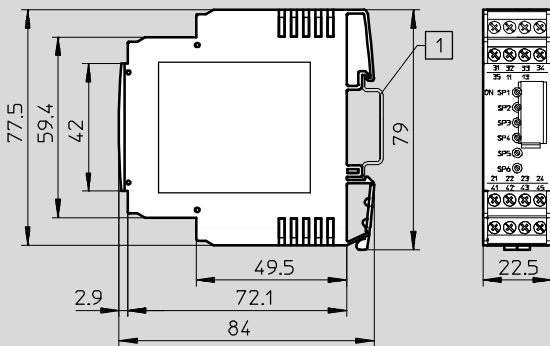
| Connections |                         |                                       | Priority    |
|-------------|-------------------------|---------------------------------------|-------------|
| 31          | Activate setpoint 1     | SP1                                   | 1 (highest) |
| 32          | Activate setpoint 2     | SP2                                   | 2           |
| 33          | Activate setpoint 3     | SP3                                   | 3           |
| 34          | Activate setpoint 4     | SP4                                   | 4           |
| 35          | Activate setpoint 5     | SP5                                   | 5           |
| 11          | Activate setpoint 6     | SP6                                   | 6           |
| 13          | Control line            | 0 V                                   | -           |
| 21          | Control line            | 0 V                                   | -           |
| 22          | External setpoint input | $U_{w, in} = 0 \dots 10 \text{ V DC}$ | 7 (lowest)  |
| 23          | Control line            | 10 V DC                               | -           |
| 24          | Screening               | PE                                    | -           |
| 41          | Control line            | 0 V DC                                | -           |
| 42          | Setpoint output         | $U_{w, out}$                          | -           |
| 43          | Power supply            | -                                     | -           |
| 45          | Power supply            | +                                     | -           |



- 1 Operational status display, green LED
- 2 Setpoint display active (SP1 ... SP6), yellow LED
- 3 Setpoint potentiometer SP1 ... SP6
- 4 Inscription label

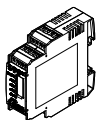
## Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)



- 1 H-rail to DIN EN 60715

## Ordering data

|   | Description   | Part No. | Type                |
|---|---|----------|---------------------|
|  | Setpoint module for generating 6 + 1 analogue voltage signals | 546224   | MPZ-1-24DC-SGH-6-SW |