

## Multi-Controlsystem **FP16+**



### 1. Introduction

The multi-circuit-control-system FP16 is well established in the market. According to the continuous contact with the users the product-development **FP16+** was conceived. The intelligent sub-station for host- or visualisation-systems this device is directed strongly to satisfy the requests for increasing numbers of zones and additional monitoring or signalling machine and tool status.

Two more plug-in slots than FP16 recommend the use of the **FP16+** in cases, where future expansion is planned or spare slots are requested. This will avoid hardware modifications in cabinets and software revisions to gain additional bus addresses. However, the **FP16+** may operate with customer's operator stations or can be used in combination with **FELLER ENGINEERING** visualisation systems FM16, FM32 or FECON. Using the standard plug-in modules the FP16+ has an extremely high price/value relation.

The **FP16+** with different plug-in modules enable individual system configurations, e.g. temperature multi-circuit controller with / without serial or parallel heating current monitoring. So the **FP16+** may be used as a data acquisition system or control- or automation-system including PLC functions.

Preferred fields of use are: plastic and adhesive processing, packaging machines, and mainly injection-moulding-, extrusion-, blow-moulding, stretcher-leveler-machines, presses, calenders, etc.

### 2. Short Description

8 plug-in slots, 2 slots required for power-supply and processor modules  
48x 3 term control / 64x 2 term control / 96x data-acquisition.

Cumulated, isolated outputs for Hi-, Lo-, Deviation- or System-Fault-alarms.

Max. 2 bus data interfaces, RS422 or RS485

Expandable up to 30 units FP16+ connected to one RS485 bus.

Other protocols are available or can be adapted

Can-Bus- and Profibus-interfacing is optional

Used as temperature controller a single unit can control up to 48 heating/cooling circuits or 64 heating circuits with separate outputs. All inputs and outputs are isolated from the internal supply voltage. The cycle time to handle all circuits is in spite of number of possible circuits approx. 1 sec only. This ensures that the system may be used for fast controls, e.g. hot-channel control.