

## ELECTRONIC PROCESS UNIT

# AED 1012 AED 1012-DIN

for analogue & digital **MAURER** pyrometers

Complement your **MAURER** pyrometer with an electronic process unit and benefit from numerous functions. With this device you have all relevant data immediately in view. Adjusting the settings can be easily done thanks to the intuitive handling of the menu navigation. In addition, it enables you to record measured data and set the parameters for your pyrometer effortlessly and without a computer. For further control purposes, a large amount of data and signals can be tapped or fed from an external source via the terminal block on the rear side.



AED 1012 – standard design with feet



AED 1012-DIN – in DIN-housing

The most important **features** und **characteristics** at a glance:

- **Display unit:** gives an overview of all important information
- Overall **parameter setting of pyrometer** without computer possible
- 2 separately adjustable **switch outputs** with optorelais
- Works as **voltage supply** for the pyrometer
- Digital **pyrometer interface** RS232 or RS485
- **Authorization management** with optional PIN protection against unauthorized access
- **Automatic determination of emissivity and transmission**
- **Data logging to USB flash drive** with real time clock
- **Ultra fast sampling rate** of 50 µsec
- Multilingual **Touchpanel**
- 6-digit **temperature display** °C / °F

## Technical Data

Pyrometer interface	RS232 / RS485, switchable
Computer interface	USB 2.0 Optional: ProfiBUS, ProfiNET, Ethernet, EtherCAT
Data recording	Recording on USB flash drive or PC, with real time clock
Input of actual value	Current loop of pyrometer (0 - 20 mA or 4 – 20 mA / input impedance 20 R)
Measurement indication	6-digit programmable, adjustable display rate 100 ms – 10 s
Sampling time	50 µsec
Measuring range	Manual scaling for analogue pyrometers from -50 °C to 4000 °C Automatic scaling for digital pyrometers Set points adjustable within measuring range
Switching outputs:	2 x optorelais (optional 4 x) with changeover contacts, each 250 VAC / 100 mA 1 x optorelais pyrometer limit Switching hysteresis: Adjustable between 0 – 50 °C, response time 3 ms
Operating / Storage temperature	0 – 60 °C / -10 °C – 70 °C      32 – 140 °F / 14 – 158 °F
Supply voltage	100 – 277 VAC / 50 – 60 Hz
Power consumption	Max. 20 W
Power supply for pyrometer	+ 24 V / 300 mA (D-SUB)
Signal outputs	via 16-pol. screw terminal block
IP Code	IP50
Weight / Dimensions (LxHxW)	AED 1012:      1,3 kg / 155,5 x 69 x 204 mm (with foots: height 104 mm)
	AED 1012-DIN: 1,1 kg / 96 x 96 x 170 mm (with power supply connector: width 235 mm), panel cutout 92x92 mm

## Configurations

- In DIN-housing according to DIN 43700 for panel cutouts of 92 x 92 mm
- Connection of second pyrometer via RS232 interface
- Connection of up to 6 pyrometers via RS485 interface
- Additional current output 0 (4) – 20 mA
- Two additional switching outputs

## Main Equipment

Electronic Equipment	Mechanical Equipment
Connection cables	Mounting brackets for panel installation *    Table top stand *
Connection bar for up to 6 pyrometers	Protection casing IP65

\* not available for DIN-housing