

**Video Pyrometer  
OMV Series  
250 °C up to 1600 °C**



Temperature measurement with video function

Robust pyrometers of the OMV series for industrial use, for temperature measurement ranges between 250 °C and 1600 °C in metalworking applications. The integrated video camera and the laser pointer provide easy alignment on the object to be measured. The electronics is incorporated in the pyrometer. A Windows software allows the setting of the measurement range according to individual needs. It is also possible to store video images and the relevant temperature information, for future evaluation.

These pyrometers have been designed for control and monitoring tasks in different industrial sectors:

- steel and rolling mills
- furnace construction
- ceramics
- soldering, sintering, hardening
- metal sector
- automotive
- quality control

### Highlights at a glance

- stainless steel housing M48
- incorporated electronics
- video camera
- variable focus
- Laser pointer
- Temperature ranges:
  - 250 °C up to 800 °C
  - 385 °C up to 1600 °C
- Electrical connection:
  - 5 - 28 V DC
  - 4 - 20 mA current loop output signal
  - USB interface
  - alarm output
- Technical Data:
  - response time 10 ms
  - measuring areas from 1,5 mm diameter
  - accuracy from 0,3 % (+2 °C)
  - video signal USB 640 x 480 px
  - maximum value memory
  - ambient temperature up to 70 °C

### Programming

The following functions are possible via software:

- adjustment of the measurement range
- emissivity setting
- display and recording of the measurement data
- display and recording of the video image
- evaluation of the video image and measurement data
- configuration of alarm output
- average, max. and min. value
- automatic snapshots

The software runs under Windows. The user guidance system is multilingual and largely self-explanatory.



An extensive range of accessories rounds off this product line and allows adaptation to fit different operating conditions.

# Video Pyrometer

## Type Overview OMV Series

Pyrometers of the OMV series for temperature measurement of metals are available in different versions.

### Advantages of the OMV series

- temperature measurement with instant video recording
- robust stainless steel housing (M48)
- sensor with incorporated electronics
- easy configuration and evaluation via Windows software
- alarm output
- 2-wire analog output 4-20 mA

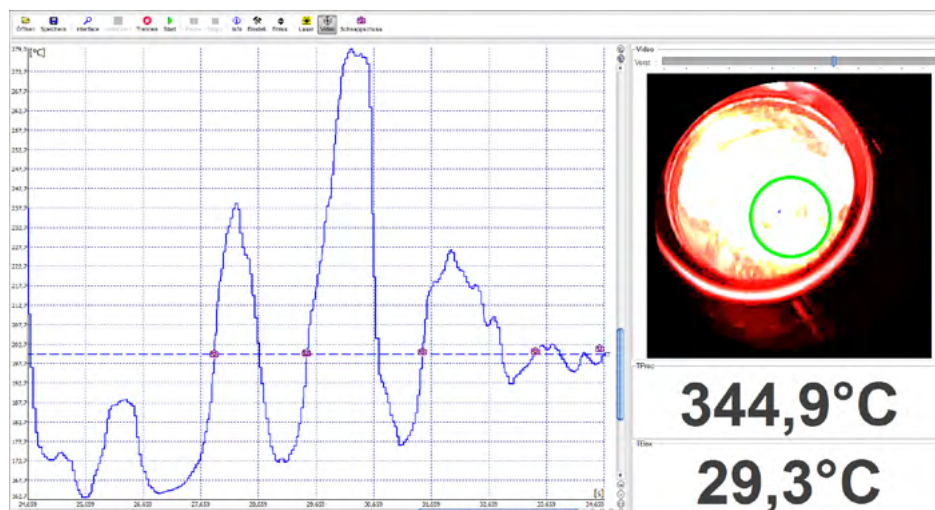


### Type overview

| OMV (spectral range 1,6 µm) |                           |             |                                       |     |     |      |      |      |
|-----------------------------|---------------------------|-------------|---------------------------------------|-----|-----|------|------|------|
| Standard optics             | Measurement distance [mm] |             | 0                                     | 200 | 500 | 1500 | 2000 | 2500 |
| Type                        | Measurement range         | Sensor      | Diameter of the measurement spot (mm) |     |     |      |      |      |
| OMV CSV 2ML                 | 250 °C up to 800 °C       | up to 70 °C | 20                                    | 1,3 | 3,3 | 10   | 13,3 | 16,7 |
| OMV CSV 2MH                 | 385 °C up to 1600 °C      | up to 70 °C | 20                                    | 0,7 | 1,7 | 5    | 6,7  | 8,3  |
| Near-field optics           | Measurement distance [mm] |             | 0                                     | 90  | 120 | 150  | 200  | 250  |
| Type                        | Measurement range         | Sensor      | Diameter of the measurement spot (mm) |     |     |      |      |      |
| OMV CSV 2MLCF               | 250 °C up to 800 °C       | up to 70 °C | 20                                    | 0,6 | 0,8 | 1    | 1,3  | 1,7  |
| OMV CSV 2MHCF               | 385 °C up to 1600 °C      | up to 70 °C | 20                                    | 0,3 | 0,4 | 0,5  | 0,7  | 0,8  |

### Automatic snapshot

For process control or quality recording purposes, it is possible to store video images with temperature information – automatically whenever temperature exceeds or drops under the limit, or on a time basis.



# Video Pyrometer OMV Series

## Accessories for OMV

| Examples of available accessories            |  |  |
|----------------------------------------------|--|--|
| Mounting bracket - 2 axes                    |  |  |
| Air purge                                    |  |  |
| Water cooled housing up to 175 °C            |  |  |
| Cooling jacket                               |  |  |
| Mounting bracket for cooling jacket - 2 axes |  |  |

A connection cable for analog and alarm output is available in different versions in 3 m, 8 m and 15 m length.  
Additional accessories on request

## Tried and tested applications for Proxitron pyrometers are for example:

- temperature monitoring at presses
- object temperature in furnaces
- soldering
- rolling
- casting
- research and development
- ceramics production



Further Proxitron pyrometers are available for different applications.

Please let us know your requirements. We will be pleased to advise you.