



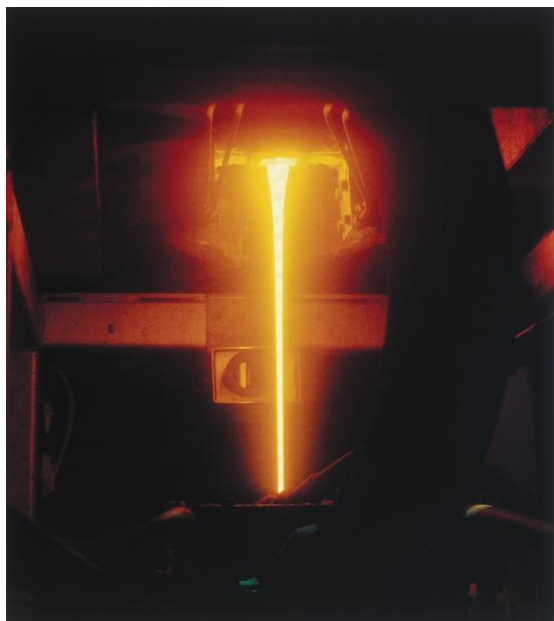
Pyrometer upgrade for the GFM system

Measuring the temperature of the glass stream in the glass wool manufacturing process will increase the understanding of the fiberizing process and improve the potential and accuracy in controlling it. It will give the possibility to improve the glass properties and fibre forming.

The updated pyrometer has an entire all digital design and adjusts automatically to the glass emissivity.

Intensity fluctuations caused by the varying size and shape of the glass stream or the presence of dust, smoke or gas along the optical path of the pyrometer are eliminated by the ratio detecting principle.

The two-colour ratio pyrometer consist of a module mounted inside the GFM camera. The temperature measurement is displayed on the CPU touch screen – HMI.



GFM Pyrometer – Specification

Measuring range:	900 - 1 200 C (1 652 - 2 192 F)
Target diameter:	5 mm (1/5")
Spectral range:	0.9 – 1.1 microns
Response time:	2 sec.
Accuracy:	3 C (4 F)
Repeatability:	1.5 C (2 F)

The temperature of the glass stream is measured at the same time as the glass flow is measured by the GFM system, and in the same position all the time.

The pyrometer is an option when ordering a new GFM camera, but can be retrofitted in existing cameras. In this case, the camera should be returned to Gedvelop for installation and calibration.