

The present invention relates to a measuring apparatus for measuring the temperature of a molten metal bath, comprising an optical device, a detecting means, a storing unit for the optical device, a rotatable support for the storing unit for the optical device, a moving means, a straightening means, a housing and a guiding system connected to the housing. The housing encloses the detecting means, the storing unit for the optical device, the rotatable support for the storing unit of the optical device, the moving means, and the straightening means. The moving means is adapted to feed and retract the optical device and comprises at least one motor for forward and backward driving the rotatable support for the storing unit for the optical device and a feeding means for feeding the optical device driven by at least one motor for forward and backward driving. The invention also relates to a method using a corresponding measuring apparatus for measuring the temperature of a molten metal bath.