LIGHT-GUIDE THERMOMETRY SYSTEM

Areas of Application

Continuous light-guide temperature control of metal melts in furnaces and melting facilities, in metallurgy; salt and ceramic melts, gaseous environments, and brickworks in other industries

Specification

Range of measurable temperature, °C600 - 1800Fundamental measurement error, %0.5 - 1.0

Advantages

Provides optimal online control and regulation of temperature regimes of manufacturing processes; reduces power consumption by 20-80%, temperature defects by 40-100%, waste of charge materials by 20-40%; extends brickwork service life by 50-100%; increases yield capacity of furnaces by 40-80%; prevents failures caused by metal overheating or overcooling

Stage of Development. Suggestions for Commercialization

IRL8, TRL8 Customized manufacture, delivery, warranty service, and staff training, upon request

IPR Protection

IPR3, IPR5

Continuous light-guide temperature control of liquid cast iron in the induction channel pouring furnace

Contact Information

Anatoly V. Narivskyi, Physico-Technological Institute of Metals and Alloys of the NAS of Ukraine; +38 044 424 35 15, e-mail: metal@ptima.kiev.ua







Secondary measurement transducer

Light-guide unite

Continuous light-guide temperature control of liquid cast iron in the induction channel mixing furnace

