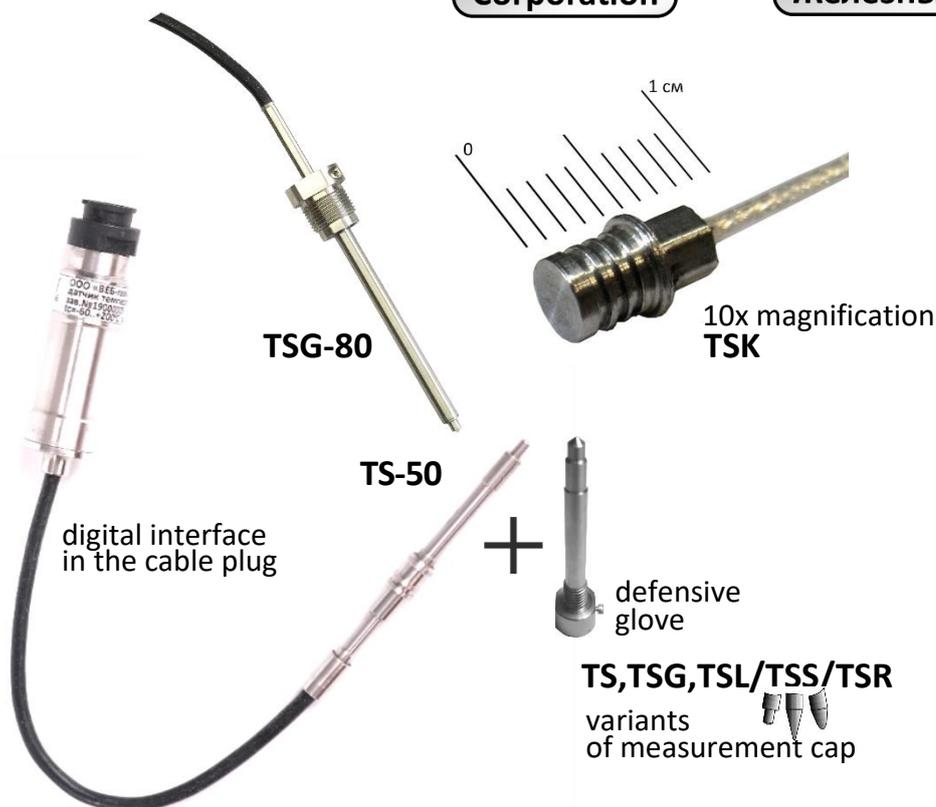


Industrial Temperature Sensors FERRUM. The best in class.

2021-year's construction

Iron Sunrise
Corporation

Корпорация
Железный Рассвет



The sensors Ferrum for an autonomic and in-built usage in practically all spheres of the temperature sensors possible application, have the factory metrological calibration, connection by cable or connector, an interface RS485 with two open protocols for a communication with external data logger (computer, control tool). Belong to a permanent time working equipment. The sensors have the glove defended constructions TS, TSL, without gloves TSG, TSL, TSR, TSS, and also surface installed TSK for a curved surface montage, all with any working orientation.

A temperature measurement of gas, steam, liquid, loose and solid bodies. Really the all spheres of possible industrial application and not only. A result in degrees of C, K, F. Provided an exploitation on the montage pipelines with pressure up to 500 atm. of diameters from 15 to 2000 mm and a precise sensor positioning on the pipe axis.

The sensors are aimed for transport, including sea, mining operations, atomic objects, metallurgy, construction, water and thermal heat supply, thermos and electro energetics, chemistry, machine tool construction, aviation, food industry and another spheres.

The highest level of all technical characteristics and protection in the industrial segment.

Service time is up to 50 years. Cable communication up to 5 km. Simple connection to Internet and Wi-Fi.

The measuring temperature range from -100 to $+200$ °C. The ambient temperature range from -100 to $+85$ °C. The climatic executions: УХЛ2, УХЛ5, OM2 according GOST 15150, whether group C4 according GOST R 52931, a humidity up to 98 %.

The measurement errors limits in working conditions of utilization: $\pm(0,15+0,002 \cdot |t|)$ °C (accuracy class), $\pm 0,1$ °C, $\pm 0,03$ °C.

Power supply – (3,3/5) V from interface RS485 or external. Energy micro consumption. Battery of AA size could be capable to provide the non-interrupted work of seven sensors during 10 years. A sensor quantity in the interface network is up to 200.

Galvanic isolation 2,5 kV of output, option.

Intrinsic safety transducers-barriers USB and RS485.