Convir FL Series
Non-Contact Fibre-Optic Temperature Sensor

♦ Especially suited for temperature measurement:
  - With vacuum-equipment
  - In hazardous areas
  - In induction heating processes
  - Of metal surfaces, ceramics and many others

♦ Temperature range from 300°C to 2500°C
♦ Adjustable emissivity from 0.2 to 1.00
♦ Adjustable optics
♦ LED pilot-light
♦ Optical unit operates in ambient temperatures up to 250°C
♦ Response time of 20ms

The new Convir FL series of fibre-optic infrared temperature sensors are ideal for installations where traditional sensors cannot operate, for example near induction heaters, in vacuums or in areas with high ambient temperatures.

The FL series sensors offer temperature ranges from 300°C to 2500°C, with adjustable emissivity and an ultra fast response time of just 20ms.

Two optical heads are available; the LVO25 is designed for use over short distances with very small spot sizes, and the LVO35 head is intended for longer distance measurements. Both of these optical heads use a manually adjustable focal distance to help provide the best possible measurement spot size at any distance. A white LED light can be shone through the lens of either sensing head showing the area being measured to help with precise alignment and focusing.

The sensing heads of the FL series sensors can operate in ambient temperatures up to 250°C without the need for additional cooling.

The FL models can be configured using a USB interface at the rear of the instrument. This allows the emissivity, temperature range and response time of the instrument to be set to suit individual applications.