



Starline is completely "solid-state"



## STARLINE - BA7

Infrared thermometric system **STARLINE** allow you to get a **complete temperature profile with a single instrument**. Some powerful software functions provide you complete thermal map or peak temperature measurement of moving target in the field of view of the instrument, by means of elaboration of data coming from the 14 elements sensor array. The **temperature range is extended from 650°C to 1800°C**, with correction for changing in material emissivity. **STARLINE** is completely "solid-state", avoiding problems due to vibration, friction and ageing. The Anticorodal aluminium case is complete of cooling and air-purge system, so this instrument can be installed in very hot and dusty hostile industrial environments. The microprocessor based electronic is quick and reliable, providing both digital and analog outputs for **connections to any type of control system**.

**STARLINE** can also be connected to a common PC, where a **Windows®** based software can be installed for a real time profile measurement, data recording and thermal map visualization.



**SITEL Control Srl**

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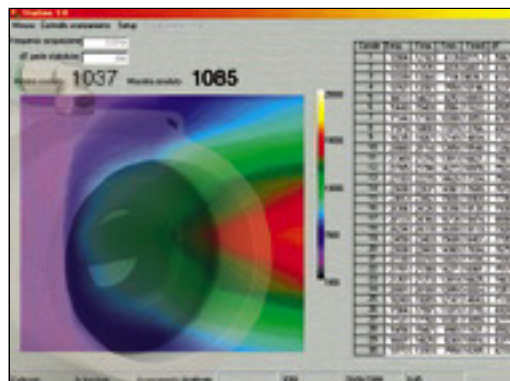
## ELECTRICAL FEATURES

The **STARLINE** Infrared Thermometer requires a power supply between 12 and 36V d.c., or 9 and 25V a.c. . Suitable power supply is available from Sitel Control.

The non contact temperature measuring system can be completed by the S4-PLUS digital indicator which communicates with "Starline", by an RS485 serial communication.

## Target Distance and Spot Size

**STARLINE** Infrared Thermometer provides temperature measurement of only 140mm object size at a distance of 7000 mm, the field of view is: 50:1. Use of target size diagram make you sure that the desired target completely fills the thermometer field of view.



## Mechanical Features

**STARLINE** Infrared Thermometer is used in high temperature applications, such as metal production and processing industries. It satisfies any requirement of strongness, reliability and mounting simplicity.

## Cooling System

**STARLINE** is supplied with a protective jacket, (Anticorodal anodized aluminium), in order to provide reliable thermometer cooling and protection. This air cooled jacket contains an integral air purge unit, used to clean the frontal lens.

## Features

MODEL	STARLINE BA7	STARLINE HS
TEMPERATURE RANGE °C	650 / 1200	1000 / 1800
WORKING WAVELENGTH	1 µm	1 µm
FOCUSING DISTANCE	7000 mm	1000 mm
RESPONSE TIME	90 ms	200 ms
SENSOR	14 cells array	32 cells array
APERTUR ANGLE	16°	60° adjustable
FUNCTIONS	peack-picking, averaging, track and hold, alarms	peack-picking, averaging, track and hold, alarms
TEMPERATURE COMPENSATION	electronic COMPENSATION	electronic COMPENSATION
EMISSIVITY	adjustable from 0,30 to 1,00	adjustable from 0,30 to 1,00
TARGET DIAMETER	from 140 mm to 7000 mm distance	from 10 mm to 1000 mm distance
ACCURACY	1°C	1°C
STABILITY (TEMP.)	from 0,2C°/C°	from 0,2C°/C°
AMBIENT OPERATING	23°C ambient temp.	23°C ambient temp.
TEMP. RANGE	-10°C to +60°C	-10°C a +60°C
OUTPUT LINEAR	4 - 20 mA - RS 485	serial RS 485
POWER SUPPLY	from 12 to 36V d.c.	from 9 a 25V a.c
PROTECTION LEVEL	IP 65	IP 65

Specifics can be changed without notice B.ST.ENG.03

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