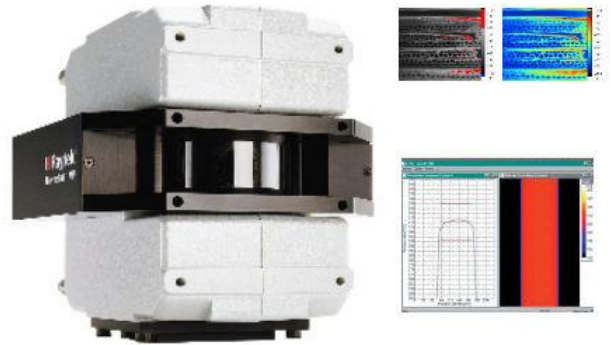




## BENEFITS

- Variable coupling to existing system control for autom. alarm thresholds / conveyor width / recipe adjustment
- High scanning speed of up to 150 lines per second
- Up to 1024 measuring points along one measuring line
- High system reliability scanner engine with MTBF 40.000h
- User programmable 4 ... 20mA current outputs
- High integration through OPC, Profibus or analogue signals
- RS485 interface for transmission distances of up to 1000m
- TCIP / IP Ethernet interface
- Robust IP65 housing and optional protective housing
- Effective air purge to keep the measurement window clean
- Integrated water cooling for ambient temperatures up to 180°C



## DESCRIPTION / EXAMPLE APPLICATIONS

The *IR Adhesive-Scan HT®* system continuously and contactlessly measures the temperature profile of hot-melt adhesive applications. In practice, it has been found that there is a very fine correlation between the application rate and the measured temperature. Thus, the system is not only able to monitor the uniformity of a surface application, but also to allow conclusions about the amount of adhesive. By means of adjustable monitoring parameters it allows an individual temperature evaluation and alarming.

The provision of a variety of industry standard interfaces allows for easy integration of the system into existing process controls. Thus, both trend functions, alarm value processing and control tasks can be realized in the usual PLC environment. By using one or more RAYTEK MP150 IR line scanners with an opening angle of 90°, even in confined spaces large widths can be recorded and evaluated.

Likewise, the dynamic adjustment of the respective monitoring parameters such as application width, conveyor speed and hot melt application temperature can be adjusted automatically. After a single pre-configuration, the system can visualize all relevant measured values on a built-in IPC panel without further user input, while the test results for the necessary alarm and control tasks are transferred directly to the system control.

## MEASUREMENT PARAMETERS

<b>Line frequency [Hz]</b>	20 to 300
<b>System response time</b>	7 to 50ms
<b>Scan angle</b>	90° / 45°
<b>Emissivity</b>	0,1 ... 1,0 digitally adjustable
<b>Measuring points</b>	256 ... 1024 measuring points per line (adjustable)
<b>Signal processing</b>	Min. Adhesive application Max. Adhesive application Homogeneity
<b>Analogue outputs</b>	0/4 ... 20mA (optional)
<b>Digital outputs</b>	relay or solid state relay (optional)
<b>Alarm outputs</b>	4 relays (changer) Temp.-Warning, Temp.-Alarm, Watchdog, System error (optional)
<b>PLC coupling</b>	OPC, Profibus, CP340, CP341
<b>Power supply</b>	230VAC
<b>Scope of delivery</b>	Sensor unit, System computer incl., Monitoring software, Monitor, input devices, documentation

## GENERAL PARAMETERS

<b>Protection class</b>	IP65 (IEC 529)
<b>Ambient temperature</b>	
Without water cooling	0 ... 50°C
With water cooling	max. 180°C
<b>Internal device</b>	
<b>Temperature</b>	0 ... 60°C
<b>Storage temperature</b>	-25 ... 65°C
<b>Relative humidity</b>	10 ... 90%, (non condensing)
<b>Shock</b>	IEC 68-2-29, 3 Axles, 1000 Shocks, in operation: 5G, out of service: 25G
<b>Vibration</b>	IEC 68-2-6, 3 axes, 10 – 150Hz, in operation: 0,5G, out of service: 2G MTBF: 40.000 hours
<b>Mechanical scanning</b>	
<b>water cooling,</b>	
<b>standard air purge</b>	Standard
max. water pressure	5 bar
max. air pressure	3 bar
<b>Dimensions</b>	450 x 450 x 450mm (Sensor unit)
<b>Weight</b> (Sensor unit)	approx. 15kg, plus mounting



## INTERFACE/ SECTOR MONITORING

In the detection range of the sensor units, any number of independent sectors including numerous mathematical functions can be defined. The sectors related measurement results or their links with each other can be individually routed via defined interfaces to a PLS and/or evaluate locally in this system. System logs provide information about events that have occurred and document them with a time stamp. A client installation allows other computers in the network to access stored data and to document these thermally and temporally.

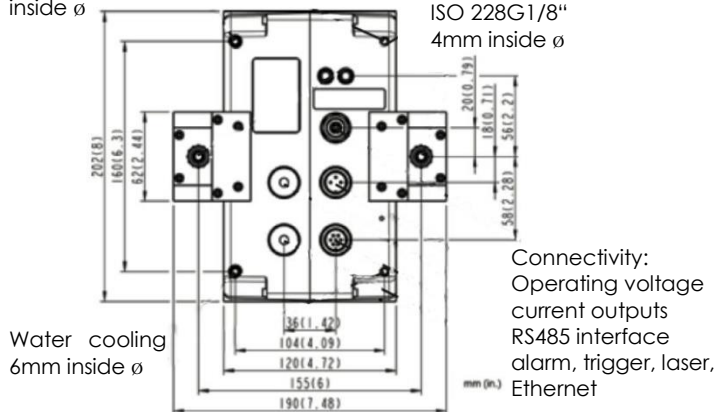
## ACCESSORIES

SEL-ADHT-RMB	Adjustable mounting foot
SEL-ADHT-FWPBDP	Profibus S7-connection
SEL-ADHT-FWOPC	OPC S7-connection (or other PLC's)
SEL-ADHT-APCOMP	Gas ring compressor for purging air supply
SEL-ADHT-IF	Interface unit for analogue signal coupling
SEL-ADHT-TIPC	Touch industrial PC in sheet steel housing
SEL-ADHT-SAH	Swivel arm mount for IPC
SEL-ADHT-MP150	Further sensor units
SEL-ADHT-CERT	ISO calibration certificate based on NIST / DKD certified probes

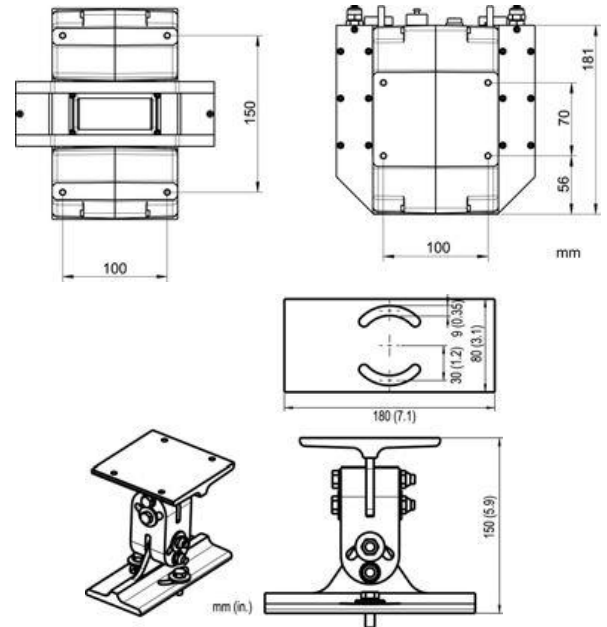
## SCANNER WITH CONNECTIVITY

Water cooling 6mm  
inside ø

Air purge  
ISO 228G1/8"  
4mm inside ø

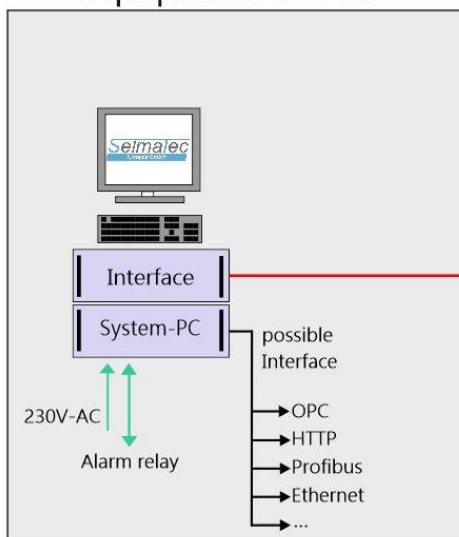


Water cooling  
6mm inside ø



## EXAMPLE SYSTEMS LAYOUT

### equipment room



### Slot dies monitoring

