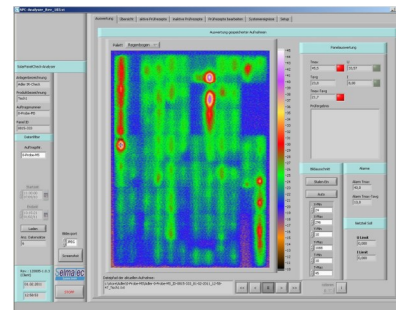




## BENEFITS

- **Highly automated**, module-dependent testing of photovoltaic modules
- **IR resolution of up to 1024 x 6000 pixels**
- **System reliably detects anomalies** (e.g. short circuits, line breaks, etc.)
- **Fast automated evaluation of the measurement results**
- **Individualized control of the PV power supply units**
- **High scanning speed** of up to 300 lines per second



## DESCRIPTION

The **PV-Inspector** enables a highly automated test station operation incl. editable PV module data base. The individual, module dependent test parameters allow an efficient and safe inspection to detect short circuits, line breakages or contact problems on used or new photovoltaic modules.

An interactive test station staff guidance allows a quick training of unskilled staff while ensuring a correct test sequence incl. automated report generation. The provision of a large number of industrial interfaces enables easy integration of the system into existing process controls or control systems.

For Industry 4.0 applications, various incycle telegrams are available for communication with higher-level systems. Thanks to the open system layout, additional hardware and software functions can be retrofitted at any time if required.

## MEASUREMENT SPECIFICATIONS

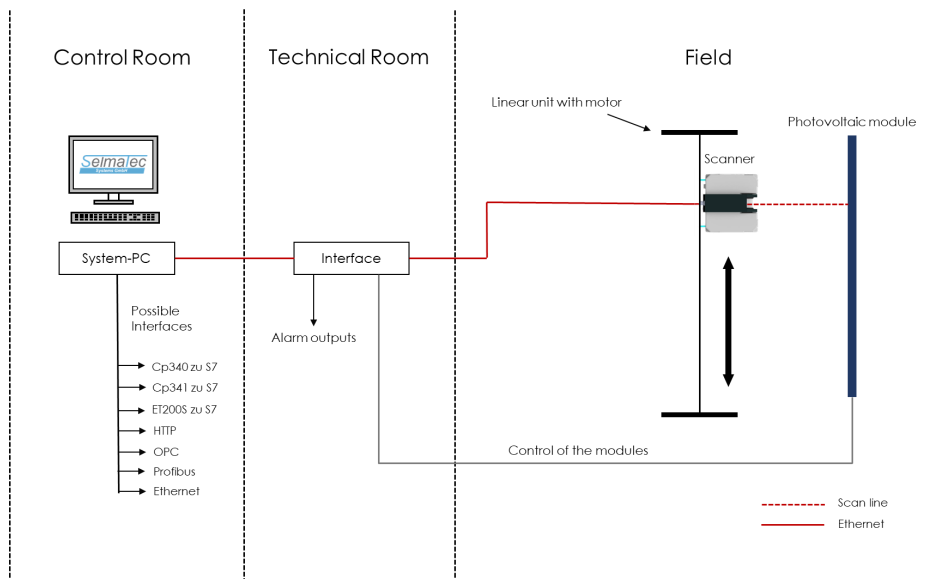
<b>Line Frequency</b>	300 Hz, 150 Hz, 108 Hz, 75 Hz, 48 Hz, 36 Hz, 20 Hz
<b>Scan angle</b>	90° / 45°
<b>Emissivity</b>	0,1 ... 1,0 digital adjustable
<b>Measuring Points</b>	256 ... 1024 measuring points per line (adjustable)
<b>Signal processing</b>	Max-, Min-, Mean, Max- minus Mean value, Measuring points above alarm value, gradient, Standard deviation (adjustable per sector)
<b>Analogue outputs</b>	0/4 ... 20 mA (optional)
<b>Digital outputs (optional)</b>	Relay or solid state relay (optional)
<b>Alarm outputs</b>	4 Relays (changer) Temp.-warning, Temp.-alarm, Watchdog, System error
<b>PLC coupling</b>	OPC, Profibus, CP340, CP341
<b>Power supply</b>	230 VAC
<b>Scope of delivery</b>	Sensor unit, Interface, System computer incl. Software, Monitor, Documentation

## GENERAL PARAMETERS

<b>Protection class</b>	IP65 (IEC 529)
<b>Ambient temperature</b> (Without water cooling) (With water cooling)	0 ... 50 °C Max. 180 °C
<b>Internal device 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 axes, 1000 shocks, in operation 5G, out of service: 2G
<b>Vibration</b>	IEC 68-2-6, 3 axes, 10 – 150 Hz, in operation: 0,5G, out of service: 2G
<b>Mechanical scanning system</b>	MTBF: 40.000 h
<b>Air Purge Unit</b> max. Water pressure max. Air pressure	Standard 5 bar 3 bar
<b>Dimensions</b> (Sensor Unit)	450 x 450 x 450 mm
<b>Weight</b> (Sensor Unit)	Ca. 15 kg, plus mounting

### LAYOUT EXAMPLE

- There are a variety of options



### DIMENSIONS

