

# PHOTO OPTIC SENSORS

Optic-based sensors include both photo optic components and complete sensor solutions. Our component series features dual LED, bi-wavelength emitters and spectrally paired photo detectors. Our optics are suited for medical applications where selection of peak wavelength is a priority, such as pulse oximetry (SpO<sub>2</sub>). We also package our optics into complete probe assemblies for pulse oximetry monitoring applications. Our SpO<sub>2</sub> probe platform includes reusable finger clips, soft silicone boots, and a range of disposable sensors.



## PHOTO OPTIC SENSORS

### Photo Optic Components



#### MEAS ELM-4000

Package	Lead frame
Type	Emitter assembly
Range	660 nm / 880-940 nm
Unique Features	<ul style="list-style-type: none"> <li>• Low cost</li> <li>• Dual drive</li> <li>• Clear epoxy lens</li> </ul>
Accuracy	Sensor dependent
Operating Temp.	-55°C to 70°C
Dimensions (mm)	4.4 x 5.1 x 1.9
Typical Applications	Pulse oximetry, finger and ear probes, disposable



#### MEAS EPM-4001

Package	Lead frame
Type	Detector assembly
Range	—
Unique Features	<ul style="list-style-type: none"> <li>• Low cost</li> <li>• Fast response</li> <li>• High efficiency</li> </ul>
Accuracy	Sensor dependent
Operating Temp.	-55°C to 70°C
Dimensions (mm)	4.4 x 5.1 x 1.8
Typical Applications	Pulse oximetry, finger and ear probes, disposable

### Pulse Oximetry (SpO<sub>2</sub>) Probe Platforms



#### MEAS Disposable Sensor

Package	Biocompatible
Type	Sensor platform
Range	Adult / neonatal
Unique Features	<ul style="list-style-type: none"> <li>• Latex free</li> <li>• Lightweight</li> <li>• Microfoam / cloth</li> </ul>
Accuracy	Sensor dependent
Operating Temp.	-55°C to 70°C
Typical Applications	Pulse oximetry



#### MEAS Finger Clip Sensor

Package	Biocompatible
Type	Sensor platform
Range	Adult
Unique Features	<ul style="list-style-type: none"> <li>• Soft pads</li> <li>• Lightweight</li> <li>• Easily cleaned</li> </ul>
Accuracy	Sensor dependent
Operating Temp.	-55°C to 70°C
Typical Applications	Pulse oximetry



#### MEAS Soft Sensor

Package	Silicon boot
Type	Sensor platform
Range	Adult / pediatric
Unique Features	<ul style="list-style-type: none"> <li>• Ease of use</li> <li>• Lightweight</li> <li>• Latex free</li> </ul>
Accuracy	Sensor dependent
Operating Temp.	-55°C to 70°C
Typical Applications	Pulse oximetry