

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 (SpO₂). We also package our optics into complete probe assemblies for pulse oximetry monitoring applications. Our SpO₂ 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"> • Low cost • Dual drive • Clear epoxy lens |
| 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"> • Low cost • Fast response • High efficiency |
| 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 (SpO₂) Probe Platforms



MEAS Disposable Sensor

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