

# gSKIN<sup>®</sup> DLOG Data Logger

## FEATURES

- Logger and live read-out
- Stores up to 2 million data points
- Micro- to Nano-volt resolution
- Battery lifetime >1 month
- Read-out software included
- Compact design
- USB interface



gSKIN<sup>®</sup> DLOG-4218



gSKIN<sup>®</sup> DLOG-4219



gSKIN<sup>®</sup> DLOG-4231

| Product Name                                | gSKIN <sup>®</sup> DLOG-4218           | gSKIN <sup>®</sup> DLOG-4219           | gSKIN <sup>®</sup> DLOG-4231           |
|---------------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| Article Number                              | A-057341                               | A-057416                               | A-057314                               |
| Outer Dimensions (l x w x h) [mm x mm x mm] | 52 x 20 x 15                           | 52 x 20 x 15                           | 52 x 20 x 15                           |
| Number of Sensor Ports                      | Heat Flux: 1<br>Temperature : 0        | Heat Flux: 1<br>Temperature : 0        | Heat Flux: 1<br>Temperature : 2        |
| Measuring Frequency                         | 50/s to 2/d                            | 50/s to 2/d                            | 50/s to 2/d                            |
| Bit Resolution [bits]                       | 12                                     | 12                                     | 12                                     |
| Data Storage Capacity [# measurements]      | >2'000'000                             | >2'000'000                             | >2'000'000                             |
| Battery Lifetime <sup>a</sup> [days]        | >30                                    | >30                                    | >30                                    |
| Rechargeable                                | Yes                                    | Yes                                    | Yes                                    |
| Operating Temperature Range Min/Max [°C]    | -20 / 65                               | -20 / 65                               | -20 / 65                               |
| Computer Interface                          | USB                                    | USB                                    | USB                                    |
| Software                                    | Installation CD included               | Installation CD included               | Installation CD included               |
| Operating System                            | Windows 2000 / XP / Vista / 7 / 8      | Windows 2000 / XP / Vista / 7 / 8      | Windows 2000 / XP / Vista / 7 / 8      |
| Operation Modes                             | Autonomous<br>Button Triggered<br>Live | Autonomous<br>Button Triggered<br>Live | Autonomous<br>Button Triggered<br>Live |
| Sensor / Logger Cable Length [m]            | 1.0 / 0.5 (with connectors)            | 1.0 / 0.5 (with connectors)            | 1.0 / 0.5 (with connectors)            |

### gSKIN<sup>®</sup> Sensor Port Specifications:

|                                                      |       |       |       |
|------------------------------------------------------|-------|-------|-------|
| Guaranteed Voltage Range Min / Max <sup>b</sup> [mV] | ±12.5 | ±1.25 | ±3.13 |
| Guaranteed Voltage Resolution [µV]                   | 6.2   | 0.6   | 1.6   |

### Temperature Sensor Specifications:

|                           |   |   |                                           |
|---------------------------|---|---|-------------------------------------------|
| Temperature accuracy [°C] | - | - | ±0.1 (+5...+45 °C)<br>±0.2 (-10...+58 °C) |
|---------------------------|---|---|-------------------------------------------|

<sup>a</sup> At lowest measurement frequency (2/d).

<sup>b</sup> gSKIN<sup>®</sup> sensor specific values are provided on page 2.

# gSKIN<sup>®</sup> DLOG Data Logger

## Heat Flux Range and Resolution Lookup Table

| Simply select best suited gSKIN <sup>®</sup> Heat Flux Sensor and gSKIN <sup>®</sup> DLOG Data Logger for your application from this list |                      |                                             |                                                               | gSKIN <sup>®</sup> DLOG Data Logger |                                     |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------|---------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
|                                                                                                                                           |                      |                                             |                                                               | 4218                                | 4219                                | 4231                                |
|                                                                                                                                           |                      |                                             |                                                               | Range: ±12.5mV<br>Resolution: 6.2µV | Range: ±1.25mV<br>Resolution: 0.6µV | Range: ±3.13mV<br>Resolution: 1.6µV |
| gSKIN <sup>®</sup><br>Heat Flux Sensor                                                                                                    | XM 26 9C<br>XM 27 9C | Sensitivity:<br>>1.5µV/(W/m <sup>2</sup> )  | Range [W/m <sup>2</sup> ]:<br>Resolution [W/m <sup>2</sup> ]: | ±5500<br><4.08                      | ±550<br><0.41                       | ±1300<br><1.02                      |
|                                                                                                                                           | XP 26 9C<br>XP 27 9C | Sensitivity:<br>>7.0µV/(W/m <sup>2</sup> )  | Range [W/m <sup>2</sup> ]:<br>Resolution [W/m <sup>2</sup> ]: | ±1100<br><0.87                      | ±120<br><0.09                       | ±300<br><0.22                       |
|                                                                                                                                           | XI 26 9C<br>XI 27 9C | Sensitivity:<br>>22.0µV/(W/m <sup>2</sup> ) | Range [W/m <sup>2</sup> ]:<br>Resolution [W/m <sup>2</sup> ]: | ±380<br><0.28                       | ±40<br><0.03                        | ±90<br><0.07                        |

## Power Range and Resolution Lookup Table

| Simply select best suited gSKIN <sup>®</sup> Radiation Sensor and gSKIN <sup>®</sup> DLOG Data Logger for your application from this list |                      |                         |                                      | gSKIN <sup>®</sup> DLOG Data Logger |                                     |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------|--------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
|                                                                                                                                           |                      |                         |                                      | 4218                                | 4219                                | 4231                                |
|                                                                                                                                           |                      |                         |                                      | Range: ±12.5mV<br>Resolution: 6.2µV | Range: ±1.25mV<br>Resolution: 0.6µV | Range: ±3.13mV<br>Resolution: 1.6µV |
| gSKIN <sup>®</sup><br>Radiation Sensor                                                                                                    | XM 46 9R<br>XM 47 9R | Sensitivity:<br>>70mV/W | Max. Power [mW]:<br>Resolution [mW]: | 120<br><0.087                       | 12<br><0.009                        | 30<br><0.022                        |
|                                                                                                                                           | XP 46 9R<br>XP 47 9R | Sensitivity:<br>>70mV/W | Max. Power [mW]:<br>Resolution [mW]: | 120<br><0.087                       | 12<br><0.009                        | 30<br><0.022                        |
|                                                                                                                                           | XI 46 9R<br>XI 47 9R | Sensitivity:<br>>70mV/W | Max. Power [mW]:<br>Resolution [mW]: | 120<br><0.087                       | 12<br><0.009                        | 30<br><0.022                        |