

# 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 Temperature : 0	Heat Flux: 1 Temperature : 0	Heat Flux: 1 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 Button Triggered Live	Autonomous Button Triggered Live	Autonomous Button Triggered 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) ±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 Resolution: 6.2µV	Range: ±1.25mV Resolution: 0.6µV	Range: ±3.13mV Resolution: 1.6µV
gSKIN <sup>®</sup> Heat Flux Sensor	XM 26 9C XM 27 9C	Sensitivity: >1.5µV/(W/m <sup>2</sup> )	Range [W/m <sup>2</sup> ]: Resolution [W/m <sup>2</sup> ]:	±5500 <4.08	±550 <0.41	±1300 <1.02
	XP 26 9C XP 27 9C	Sensitivity: >7.0µV/(W/m <sup>2</sup> )	Range [W/m <sup>2</sup> ]: Resolution [W/m <sup>2</sup> ]:	±1100 <0.87	±120 <0.09	±300 <0.22
	XI 26 9C XI 27 9C	Sensitivity: >22.0µV/(W/m <sup>2</sup> )	Range [W/m <sup>2</sup> ]: Resolution [W/m <sup>2</sup> ]:	±380 <0.28	±40 <0.03	±90 <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 Resolution: 6.2µV	Range: ±1.25mV Resolution: 0.6µV	Range: ±3.13mV Resolution: 1.6µV
gSKIN <sup>®</sup> Radiation Sensor	XM 46 9R XM 47 9R	Sensitivity: >70mV/W	Max. Power [mW]: Resolution [mW]:	120 <0.087	12 <0.009	30 <0.022
	XP 46 9R XP 47 9R	Sensitivity: >70mV/W	Max. Power [mW]: Resolution [mW]:	120 <0.087	12 <0.009	30 <0.022
	XI 46 9R XI 47 9R	Sensitivity: >70mV/W	Max. Power [mW]: Resolution [mW]:	120 <0.087	12 <0.009	30 <0.022