

GEKO Crackmeter



INTERNAL DEVICES AND SENSORS

Temperature sensor:

Range: -30°C / 60°C
Resolution: 0.01°C
Accuracy: $\pm 0.2^\circ\text{C}$

Memory

2MB Flash for datalogging
(approx 100000 acquisitions)



EXTERNAL INTERFACE AND SENSORS

Crackmeter sensor

The features do reference to the probe Gefran PZ12-A-25; further probes are available on the website (www.gefran.com)

Nominal range: 25 mm
Resolution: 0.01 mm
Accuracy: $< 0.1\%$ FS
Cable length: 1mt
Case dimension: 102 x $\varnothing 12.9$ mm
Minimum distance between ball-joints: 153mm
Materials: anodised aluminium and nylon 66 G 25 (case), stainless steel AISI 303 (control rod)
Weight: 70g
Fixing method: $\varnothing 4.6$ mm selfaligning ball-joints
Protection degree: IP60 (IP65 o IP67 optional)



RADIO

LPWAN

Sigfox radio RC1 zone;
more details on the website (www.build.sigfox.com)

Frequency: 868 MHz ISM
Antenna: integrated dipole
Protocol: SIGFOX proprietary
Reading distance: 20Km in free air

LAN

Frequency: 2.4 GHz ISM
Antenna: integrated monopole
Standard: IEEE 802.15.4
Protocol: TT-RFID proprietary
Reading distance: 200mt in free air

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	POWER SUPPLY	2 non-rechargeable AA lithium metal batteries 1.5V
	BATTERY LIFE	from 1 to 2 years (depending on beaconing and acquisition timings)
	WORKING TEMPERATURE	-30°C / 60°C
	DIMENSION	80 x 160 x 58 mm
	WEIGHT	270g (without displacement sensor)
	FIXING METHOD	Screws/Dual Lock adhesive (not included)
	PROTECTION DEGREE	IP65

	OPTIONAL	Second displacement sensor External temperature sensor: Range: -30°C / 60°C Resolution: 0.01°C Accuracy: ±0.2°C Cable length: 1mt External power supply: 12V/24V
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