

IFbN-1000	
Digital infrared temperature sensor For harsh environments	
SN:	Software version :
Fiber SN:	

Texys sensors are designed for data recording. If the user wants to include this sensor in a close loop system or active control, he must assume all responsibility.

Range	see calibration table	
Accuracy	2	% FS
Sensitivity	4.5	mV/°C
To ensure a correct temperature measurement, the installation of the sensor must prevent ambient light (from the sun or lamps) to penetrate in the field of view of the measuring head.		
Response time (0-90%)	< 5	ms
Supply Voltage	6 to 30	V
Protection : Reverse voltage and short circuit protection		
Supply Current	4	mA
Output Voltage	0 to 5*	V
Output Impedance	47	Ω
Sensitive Element	Photodiode	
Wave Length	2 to 2.5	μm
Calibrators	Land P550P / Land R1200P	
SMA nominal torque	1	Nm
Emissivity (factory tuning)	>99	%
Dimension	28.2x13x10 + SMA	mm
Material	Aluminum	
Weight (without cable & fiber)	15	g
Box protection	IP63	
Vibration test	20Gpp5'	
Shock	500	G
Operating Temp	-20 to +80	°C
Storage Temp	-20 to +125	°C

* may be limited when supply voltage is very close to 5V

Sensor Readings	
..... V at °C
..... V at °C

Cable: 4x26AWG FEP tinned copper braided (250V 200°C)

Length: mm Tubing:

Connector:

Colour	Function	Pin
Red	Supply	
Black	0V	
White	Analog Signal	
Green	<i>Do Not Connect and isolate</i>	
Braid		

Calibration table :

Vs = 4.5mV/°C

Tobj (°C)	Vs (mV)
<50	50
50	225
100	450
150	675
200	900
250	1125
300	1350
350	1575
400	1800

450	2025
500	2250
600	2700
700	3150
800	3600
900	4050
1000	4500
1100	4950
1111	5000

Ordering ref: IFbN-Range
300
500
800
1000
1200
Example: IFbN-1000

