

Soil Temperature


IM5041D

The Soil Temperature Sensor is a SMT 160-30 in a waterproof stainless steel housing. The sensor output is a duty-cycle signal.

Sensor	SMT160-30
Supply voltage	4.57 - 7 V
Supply current	max. 200 μ A
Short circuit protection	infinite (within supply voltage range)
Short circuit supply current	max. 40 mA
Operating temp. range	-30° C to +99° C
Accuracy	min. 0.3° C (-30° C to +99° C)
Calibration error	max. 0.25° C (23° C)
Nonlinearity error	max. 0.2° C
Supply voltage sensitivity	max. 0.1° C/V
Repeatability	max. 0.2° C
Long term drift	max. 0.1° C
Output frequency	1 to 4 kHz
Duty cycle	0.320 (0° C), 0.00470°/C
Evaluation	Analog
Cable length	5 m
Part.no. IM5041D	Single soil & water temperature with 5 m cable

IM5041D
 SAR19
 ECH500
 ECH510
 ECH5TM
 ECH5TE
 ECH511
 MD510SM
 AQ600
 TNS103..7
 SEN12512
 SEN13512
 100SMT
 ECH870E
 ECH871E
 ECH874E
 WM-BUS
 TNS100