

K-TC

Instrumentation

Thermocouple-to-CAN measurement and logging module

SYSTEM & COMPATIBILITY

Function	Thermocouple to CAN, logs independently
Host required	None; logs internally or streams on CAN
Signal definition	DBC file
Time sync	CAN-synchronised with vehicle data

INPUTS & CAN

CAN channels	1 × CAN (output)
Max bit rate	1 Mbit/s
Thermocouple inputs	8 / 16 / 32 (types K, J, T)
Protocols	CAN 2.0 (DBC configurable)

MEASUREMENT

Thermocouple types	K, J, T
Accuracy	±1 °C
Resolution	0.001 °C
Measurement range	-200 to +1200 °C
Sample rate	20 Hz per channel
Max applied voltage	±3.3 V

STORAGE & DATA

Onboard storage	8 GB eMMC
Export	MDF4, CSV (via K-Log standalone or via host)
Configuration	K-CAL + K-Log (standalone)

POWER

Power saving	Wake-on-CAN
Supply voltage	4.5 to 31 V DC (isolated)
Consumption	120 / 140 / 200 mA at 12 V (8/16/32)
Standby	24 / 25 / 30 mA at 12 V (8/16/32)

COMPLIANCE & SECURITY

Isolation (CAN/USB/PWR)	780 / 840 / 560 V peak
Input isolation	Galvanic, groups of 8

PHYSICAL

Dimensions	115 × 105 × 56 / 79 / 149 mm (8/16/32)
Weight	450 / 570 / 900 g (8/16/32)
Enclosure	Aluminium
IP rating	IP65
Mounting	Stackable, daisy-chainable (INF4305.0 cable)
Stackable	Yes
Operating temp	-40 to +85 °C
Humidity	Max 90 %

CONNECTORS

PC interface	Micro USB 2.0
Bus / I/O	Thermocouple terminals + 9-pin D-Sub (CAN)
Indicators	3

ORDERING

SKUs	INF2204 / 2205 / 2206 (8/16/32 ch)
In the box	INF2206; INF6102 (12mo warranty); INF1401 (K-CAL); INF4300 (Micro USB); INF4310 (120 term.); INF4305.0 (stacking)
Origin	Designed and tested in the United Kingdom
Warranty	12 months warranty