



Haltech Thermocouple Amplifier (TCA 2 & TCA 4)

Haltech TCA 2 Part # HT059920 / HT059921 (Box A / Box B)

Haltech TCA 4 Part # HT059940 / HT059941 (Box A / Box B)

SPECIFICATIONS

Overview: The Haltech Thermocouple Amplifier Box allows the user the ability to increase the functionality of their Haltech ECU by using the Haltech CAN system which is fitted to all Platinum Series ECU's. The Thermocouple Amplifier Box instantly makes available multiple temperature inputs for monitoring, tuning and logging.

Simply plug in the CAN cable and start using your thermocouple inputs.

Features:

TCA2 - 2 Channel Thermocouple Amplifier - HT059920 / HT059921 (Box A / Box B)

2 x Thermocouple Temperature Inputs (K Type only) (0-1250 deg C) *₁
(Thermocouple probes not included – Please contact Haltech for probe sets available)

TCA4 - 4 Channel Thermocouple Amplifier - HT059940 / HT059941 (Box A / Box B)

4 x Thermocouple Temperature Inputs (K Type only) (0-1250 deg C) *₁
(Thermocouple probes not included – Please contact Haltech for probe sets available)

Broadcast rate of 20mS to the Haltech ECU for each channel.
+/- 2deg accuracy via CAN.
Power and Status LED's.
Powered by CAN Bus when used with Haltech Platinum Series ECU's.
Analogue Voltage Outputs (0.5 - 4.5V) for each channel. *₂
Multiple Thermocouple Amplifier Boxes can be used on certain Haltech ECU's to give up to 12 Channels.*₃

ECU Suitability:	Sprint 500	-	(maximum 1 box* ₄)
	Sprint RE	-	(maximum 1 box* ₄)
	Sport 1000/2000	-	(maximum 2 boxes* ₃)
	Sport GM	-	(maximum 2 boxes* ₃)
	Pro Harness* ₅	-	(maximum 2 boxes* ₃)
	Pro Plug-in ECU's* ₅	-	(maximum 4 boxes* ₃)

Power Requirements:

Source: 8.6 to 16.5 Volts DC
Consumption: 80mA @ 12Volts DC

Physical Dimensions:

ECU Dimensions
Length: 95mm
Width: 64mm
Height: 28mm

Weight:

ECU: 150g (0.33 lb)
Harness: 70g (0.154 lb)

Haltech Thermocouple Amplifier Kit Includes:

Haltech Thermocouple Amplifier Box
CAN direct connection cable (600mm)*₃

*₁ – Functions available may vary depending on Haltech ECU used. Full function listing on page 2.

*₂ – Optional harness required to be purchased to utilize the Analogue Voltage Outputs. Haltech Part # HT049940

*₃ – Optional CAN Hub required to be purchased if more than one device is to be fitted to the Haltech CAN Bus. Haltech Part # HT059990.
Please check with Haltech technical support staff regarding the allowable combinations of TCA's with your ECU.

*₄ – Supports Box A Only.

*₅ – Supported in 1.10 and above firmware only



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SPECIFICATIONS

Functions available on the Temperature Inputs for each Haltech ECU:

Temperature Input Function	Sprint 500 & RE	Sport 1000/2000/ GM	Pro Harness System	Pro Plug-in
Air Temperature Sensor 1	✗	✗	✗	✓
Air Temperature Sensor 2	✗	✗	✗	✓
Diff Oil Temp Sensor	✗	✗	✗	✓
EGT Sensor 1	✓	✓	✓	✓
EGT Sensor 2	✓	✓	✓	✓
EGT Sensor 3	✓	✓	✓	✓
EGT Sensor 4	✓	✓	✓	✓
EGT Sensor 5	✗	✓	✓	✓
EGT Sensor 6	✗	✓	✓	✓
EGT Sensor 7	✗	✓	✗	✓
EGT Sensor 8	✗	✓	✗	✓
Fuel Temp Sensor 1	✗	✓	✓	✓
Fuel Temp Sensor 2	✗	✗	✗	✓
Gearbox Oil Temp Sensor	✗	✗	✗	✓
Oil Temp Sensor 1	✗	✓	✓	✓
Oil Temp Sensor 2	✗	✗	✗	✓

✓ = Function Available ✗ = Function Unavailable

