



Fan System Control Products

High Country Tek, Inc.
208 Gold Flat Court
Nevada City, CA 95959
Ph: (530) 265-3236
Fx: (530) 265-3275
www.hctcontrols.com



Part Number	HFS	HFS-2	HFS-2Q	HFS-3	HFS-J	HFS-J-Bus	emc-1	emc-3
Design Item						 RS232 connector removed for clarity	 RS232 connector removed for clarity	
Closed Loop Control	Y		Y	N	Y	Y	Y, e-Motor Fan Controller	Y, e-Motor Fan Controller
Fan Reversing Feature	N		Y	N	Y	Y	Y	Y
Alarm Output	LED (on unit)		Y	N	Y	Y	Y	Y
SAE J1939 Compatible	N		N	N	Y (charge air, transmission and water temps)	Y (SPN 986 only)	Y (charge air, transmission and water temps)	Y (2) Configurable
CE Compliant	Y		Y	Y	Y	Y	Y	Y
SAE J1455 Compliant	N		N	N	Y	Y	Y	Y
GUI Part Number	023-00182		023-00196	N/A	023-00218	**Pre-programmed for customer	023-00218	998-00009 Intella® 700 PT 023-00245 Intella® 700 PLM
Programming Cable	Opto3000		Opto3000	N/A	999-10075	999-10075	999-10075	999-10075
Control Inputs	3 Thermistor		3 Thermistor	Low Freq. PWM engine ECU fan speed signal	SAE J1939 and / or 2 Thermistor	SAE J1939 and / or 1 Thermistor	SAE J1939 and / or 2 Thermistor	SAE J1939 and / or 3 Uni, 3 Ana, 8 Dig
Heat Event Min. speed feature	N		N	N	N	Y	N	Y
Fan speed Override Inputs	2		-	-	-	-	-	Y
Fan reverse manual trigger	-		Y	-	Y	Y	Y	Y
Controller Output	1 x 3 Amps PWM		1 x 3 Amps PWM	1 x 1,200 mAmps, 12V 1 x 600 mAmps, 24V	1 x 3 Amps PWM	1 x 3 Amps PWM	1 x 0 to 5 VDC @ 10mA	3 x 0 to 5 VDC @ 100mA
Output Protection	Y (Open & Short detect)		Y (Open & Short detect)	Y (Open & Short detect)	Y (Open & Short detect)	Y (Open & Short detect)	Y (Open & Short detect)	Y (Open & Short detect)
Digital (On/Off) Outputs	-		2x (Alarm & Reverse valve) 3 Amps each	-	2 x (Alarm & Reverse Valve) 3 Amps each	1 x (Alarm) 3 Amps	2 x (Alarm & Reverse Valve) 3 Amps each	3 x (Alarm & Reverse Valve) 3 Amps each
Controller Power Supply	9.0 to 32 VDC		9.0 to 32 VDC	12V & 24V nominal	9.0 to 32 VDC	9.0 to 32 VDC	9.0 to 32 VDC	9.0 to 32 VDC
Operating Temperature	-40 to +75 C		-40 to +75 C	-20 to +70 C	-40 to +85 C	-40 to +85 C	-40 to +85 C	-40 to +85 C
Storage Temperature	-40 to +85 C		-40 to +85 C	-40 to +85 C	-40 to +95 C	-40 to +95 C	-40 to +95 C	-40 to +95 C
IP / NEMA Rating	68 / NEMA 6P		68 (Weatherpack Connectors) / NEMA 6P	67	68 / NEMA 6P	68 / NEMA 6P	68 / NEMA 6P	68 / NEMA 6P
L x W x H (All in Inches)	3.7" x 3.7" x 0.7"		3.7" x 3.7" x 0.7"	2.7" x 1.3" x 1.6"	3.7" x 3.7" x 0.7"	3.7" x 3.7" x 0.7"	3.7" x 3.7" x 0.7"	3.7" x 3.7" x 0.7"
Mating Connectors or Connector Style	12-Pin Deutsch, P/N: 999-10088	6 & 8-Pin Weidmuller, Included w/Unit	1 x 6-Pin & 2 x 4-Pin Weatherpacks, P/N: 999-10163	3M cable to DIN 43650	12-Pin Deutsch, P/N: 999-10155	12-Pin Deutsch, P/N: 999-10155	12-Pin Deutsch, P/N: 999-10155	48-Pin MetriPack P/N: 999-10077 + Serial Port Adaptor P/N: 999-00076
Status/Diagnostic LED's	Y		Y	Y	Y	Y	Y	Y

** - Configuration file is pre-loaded so once developed, proved and signed off by the customer engine supplier, no alterations to operation or on-site changes can be made by users to avoiding the requirement to re-certify each application.