







Electronic Control Solutions for the Global Fluid Power Industry

Hydraulic Fan System Controller 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 3x thermistors	HFS-2 3x thermistors w/reversing	HFS-2Q 3x thermistors w/reversing	HFS-J SAE J1939 and/or thermistors	HFS-J-Bus SAE J1939 w/ Fire Input
Design Item				 RS232 connector removed for clarity	 RS232 connector removed for clarity
Controller Power Supply	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		-40 to +85 C	-40 to +85 C
Temp. Data Input	3 Thermistor	3 Thermistor		SAE J1939 and / or 2 Thermistor	SAE J1939 and / or 1 Thermistor
Fan Reversing Feature	N	Y		Y	Y
Fan reverse manual trigger	N	Y		Y	Y
CE Compliant	Y	Y		Y	Y
SAE J1455 Compliant	N	N		Y	Y
Heat Event Min. speed feature	N	N		N	Y
Manual Fan speed/Test Mode	N	Y		N	N
Status/Diagnostic LED's	Y	Y		Y	Y
Diagnostic flash codes	Y	Y		Y	Y
Controller Output	1x 3Amps PWM	1x 3Amps PWM		1x 3Amps PWM	1x 3Amps PWM
Digital (On/Off) Outputs	-	2x (Alarm & Reverse valve) 3 Amps each		2 x (Alarm & Reverse Valve) 3 Amps each	1 x (Alarm) 3 Amps
Mating Connectors or Connector Style	12-Pin Deutsch	6 & 8-Pin Weidmuller, Included w/Unit	1x 6-Pin & 2x 4-Pin Weatherpacks	12-Pin Deutsch	12-Pin Deutsch
Programming/Set-up Cable		Opto3000		999-10075 + USB adaptor, 108-00119	999-10075 + USB adaptor, 108-00119
Graphical User Interface (GUI) Part Number	023-00182	023-00196		023-00218	**Pre-programmed for customer
IP / NEMA Rating	IP67 / 6P	IP68 / 6P (Weatherpack Connectors)		IP67 / 6P	IP67 / 6P
L x W x H (All in Inches)	3.8 x 3.8 x 0.7	3.8 x 3.8 x 0.7		3.8 x 3.8 x 0.7	3.8 x 3.8 x 0.7

** - 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.

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