Road Commander HVAC Interface

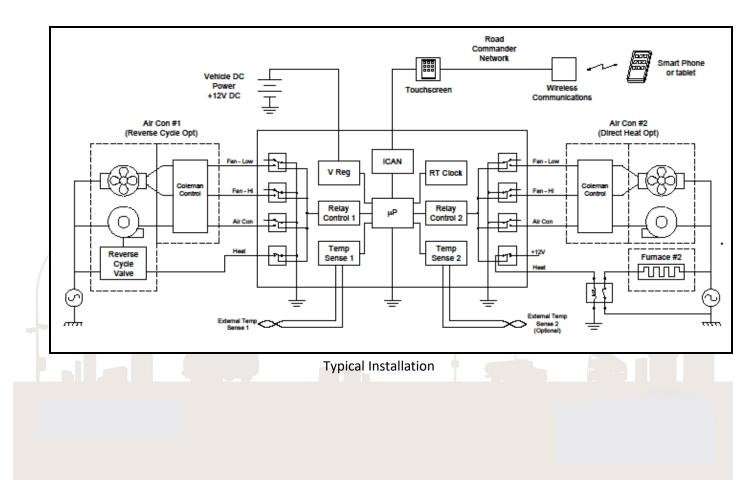
Part number: 00-01105-000





Description:

The Road Commander HVAC module provides an interface between new or existing Road Commander systems and vehicle heating, ventilation, and air conditioning systems. It is intended to operate seamlessly with industry standard HVAC components and allows operation of these systems via touchscreens or smart device Wireless Communications applications. Each interface module can control two HVAC units with high and low fan speeds, heating, and air conditioning. Additional modules may be installed to control addition HVAC units. Settings for all HVAC units may be linked or controlled as independent zones. System software provides manual and automatic control and "set back" functions. The HVAC module provides direct heat control for reverse cycle installations. All installations require a standard analog control for each HVAC unit, and an external relay is required for direct electric heat applications.





Product Features:

- Independent control of two HVAC units.
- Compatible with Road Commander 1106 Touchscreen and Generator Control module.
- Compatible with SMART phones and tablets via Road Commander Wireless Communication interface.
- Uses standard external HVAC unit power interface.
- Supports Heat, Cool, and two speed fan and automatic modes for heating and cooling
- Heating may be reverse cycle or direct electric. (Direct electric requires external relay)
- Additional modules may be added to network to control any number of HVAC units.
- Any HVAC unit may be "slaved" to first unit of first module.
- Support Heating, Cooling, and Automatic modes.
- Automatic control of fan speed.
- Four heating and cooling set-points automatically adjust temperature throughout the day.
- "Hold Temperature" feature overrides set back functions.
- Various parameters may be configured by installer.
- Fan Off Delay allows fan to run after compressor turns off to improve HVAC efficiency.
- Compressor short-cycle delay prevents damage to compressor.
- Safety mode operates circulation fan after interruption of power.
- Automatic detection of temperature sensor faults.
- On-board indicators show status of all inputs, outputs and network status.

Environmental Specifications:

Operating temp:	-40/50 deg C	(-40/122 deg F)
Storage temp:	-40/125 deg C	(-40/260 deg F)
Intrusion Rating:	None	

Agency approvals: None

Electrical Specifications	Unit	Min Typ	Max	
Operating supply voltage	V	10 12	20	
Reverse supply voltage	V		-36	
Quiescent Current Draw	mA		50	
Control Current (Per Output)	А		5	
Control circuit voltage	V	12	30	



Temperature Set-point Range		deg C	10	32	
		deg F	50	90	
Temperature D	Display Range	deg C	0	37	
		deg F	32	99	
Temperature S	ensor:	Thermist	or, 00-00	569-000 or equivalent	
		10K ohm	at 25 deg	g C (77 deg F)	
		19.9K oh	m at 10 d	eg C (50 deg F)	
		7.3K ohm	n at 32 de	g C (90 deg F)	
External HVAC	Interface:			2 "Analog Control Board"	
		or equiva	lient		
Mechanical Spec	ifications				
Housing:	5.0 x 3.5 x 1.5 in. / 127 x 89 x 38	3 mm			
Harness:	Pig-tail and/or terminator part numbers				
	Configuration adapter harness		11-0109	4-012	
	12-way wiring pigtail (J1)		11-0109	4-112	
	8-way wiring pigtail (J2/J3)		11-0110	5-008	
	Network terminator, 12-way		11-0110	5-212	
Connectors:	J1, 12-way Molex Mini-Fit Jr, Ne	etwork Co	nnections	5	
	1 Battery		7	Input 4 / Temp sense 2-	
	2 iCAN H		8	n/c	
	3 iCAN L		9	RS232 TX	
	4 Input 1 / Temp sense 1+		10	RS232 RX	
	5 Input 2 / Temp sense 1-		11	n/c	
	6 Input 3 / Temp sense 2+		12	DC Ground	
	J2, 8-way Molex Mini-Fit Jr, HV	AC Unit #1			
	1 #1 Fan – Lo (GRN)		5	#1 Fan – Hi (GRN/YLW)	
	2 #1 Air Con (YLW)		6	#1 Control Common (BLK)	
	3 #1 Control Common (BLK)		7	#1 Control Common (BLK)	
	4 #1 Heat (WHT)		8	#1 Heat Common (WHT)	
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- J3, 8-way Molex Mini-Fit Jr, HVAC Unit #2
- 1 #2 Fan Lo
- 2 #2 Air Con
- 3 #2 Control Common
- 4 #2 Heat

Available Product Literature and Guides:

Brochure:	53-01105-000
Product Specification:	53-01105-001
User's Guide:	53-01105-100
Installation and Applications:	53-01105-200
Supporting Documents:	53-01105-300



- 5 #2 Fan Hi
- 6 #2 Control Common
- 7 #2 Control Common
- 8 #2 Heat Common

Available Accessory Items and Kits:

USB Program Adapter Kit: 10-01079-000

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