

CONTROLLER OVERVIEW

Physical	TCM-2100	TCM-2600/2650	TCM-2800
Weight	0.87 lb	0.82 lb	0.82 lb
Dimensions (L x W x H inches)	4.9 x 6.1 x 1.5	5.3 x 3.7 x 1.5	5.3 x 3.7 x 1.5
Case Material & Finish	Extruded Aluminum	Aluminum Black Anodized	

Operating Conditions

Voltage Range	8-18 VDC standard (24 VDC models available)	8-18 VDC standard (24 VDC models available)	8-36 VDC
Current (device only, not including outputs)	On: 100 mA Quiescent: 9 mA	On: 100 mA Quiescent: 9 mA	On: 100 mA Quiescent: 9 mA
Operating Temperature	-50 to 125°C	-50 to 125°C	-50 to 125°C
Storage Temperature	-55 to 125°C	-55 to 150°C	-55 to 150°C
Reverse/Transient Protections	Yes	Yes	Yes
Ingress Protection	IP50	IP69K	IP69K
Harness Interface	Delphi 56-pin	Molex 56-pin	Molex 56-pin
EMI Immunity	All modules are designed for robust EMI immunity. PCS offers certification testing for the desired controller/transmission package as a cost option.		

Communication

Interface	1 x CAN 2.0b, 1 x RS-232, 1 x GM ALDL	2 x CAN 2.0b, 1 x RS-232, 1 x J1850	2 x CAN 2.0b, 1 x RS-232, 1 x J1850
Real-time tuning and data logging with a PC	Yes	Yes	Yes
Real-time tuning and data logging with PCS hand-held interface	Yes	Yes	Yes
In-Field Flash Upgradable	Yes	Yes	Yes

Inputs

Frequency (Range 0-10 kHz)	3	4	4
Programmable Trigger Levels and Filtering for Frequency Inputs	2 Channels	2 Channels	4 Channels
Analog Voltage (0-5 VDC)	2 total 1 with 1kΩ 5V pull-up	2 total 1 with 1kΩ 5V pull-up	6 total 2 with 1kΩ 5V pull-up
Programmable Input Parameters	Yes	Yes	Yes
Failure Diagnostics for each Analog Input	Yes	Yes	Yes
Digital (programmable active high or low)	6	16	16
Over Voltage Protection for Each Input	Yes	Yes	Yes

Outputs

PWM	7	7	9
Digital	1	1	3
PWM & Digital Maximum Current	3.5 Amp	3.5 Amp	3.5 Amp
Short Circuit, Over Current & Thermal Protection	Yes	Yes	Yes
User Selectable Output Drive Type (Battery Voltage or Ground)	Ground Only	Ground Only	Yes
Programmable Output Type/Parameter for PWM and Digital Outputs	Yes	Yes	Yes
Output Channel Current Monitoring	1 Dedicated High-Side Measured Output	4 PWM Channels	All Output Channels

All PCS TCM's are: • Manufactured at our ISO 9001 Facility • 1-Year Warranty (parts and labor) • Factory Tested and Burned In