

Transmission Controller Communication Quick Reference Guide

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38400 Baud, 8-N-1

Transfer Mode	Description	Command	Send Structure	Receive Structure
Read				
2 Byte	Fetch 2 Bytes	R	R[2 byte address][1 byte checksum]	R[2 bytes][checksum]
16 Byte	Fetch 16 Bytes	Q	Q[2 byte address][1 byte checksum]	Q[16 bytes][checksum]
Monitor Data Stream	Get Data Stream	D	D	D[xx Amount Data][checksum]
Alternate Data Stream	Get Alternate Data Stream	d	d	d[xx Amount Data][checksum]
Firmware	Get Firmware Revision	F	F	[1 byte version major][1 byte version minor][1 byte hardware revision][checksum]
Send Unit Password	Unlock calibration for dealer	U	U[16 byte password][1 byte checksum]	U=Correct Password I=Incorrect Password
Retrieve Failure Warnings	Get analog failure notices past or present	A	A	A[4 bytes][1 byte checksum]
Write				
1 Byte	Write 1 Byte	X	X[2 byte address][1 byte data][1 byte checksum]	X
2 Byte	Write 2 Bytes	W	W[2 byte address][2 byte data][1 byte checksum]	W
16 Byte	Write 16 Bytes must use 16 Byte Finish when done	P	P[2 byte address][16 byte data][1 byte checksum]	P
16 Byte Finish	MUST be used after 16 byte write	S	S	S
16 Byte Flash Write	During flash programming ONLY	P	P[2 byte address][16 byte data][1 byte checksum]	P
Vector Programming	During flash programming ONLY	V	V[256 byte data][1 byte checksum]	V
Clear Reflash Command	Use when flash update is finished	C	C	C
Unit Password				
Send Unit Password	Unlock calibration for dealer	U	U[16 byte password][1 byte checksum]	U=Correct Password I=Incorrect Password
Set Unit Password	Lock calibration for dealer	P	P[3FD0h][16byte password][1 byte checksum]	P On receive of P make sure to send S
Error				
Error Command	If checksum is incorrect we receive an E	E	Applies to all checksum based command	E
Reset				
Reset Unit	Used to reset the unit - For Flash programming	G1	G1	(Will get f on bootup)
On bootup receive	Make sure it is lowercase	f		f
Test Mode				
Test Mode Start	Enter and stay in test mode	TS	TS	
Test Mode End	End test mode	TE	TE	

See Checksum Calculation document for calculation. The checksum calculation does not include the command byte(s) in either the send or receive.