Send Calibration to TCU

Communication Interface

RS-232, 38400 baud, 8-N-1

Commands

Function	Command	Format
16-byte write	P	P [2-byte address] [16-bytes of data] [1-byte checksum]
16-byte Finish	S	S

Use

To program a calibration file to the TCU, open the file as binary and transfer it 16 bytes at a time. For each 16-byte write command increment the address by 16 and repeat until the end of the file. Complete the operation by transmitting a Finish 16 byte Write command.

The calibration memory is 2000 bytes, for a total of 125 writes. The starting address for the calibration space is $3800 (14336 decimal), and the ending address is $3FD0 (16336 decimal).

Example

1. Open Calibration file as binary. Calibration files use the .tcu file extension
2. Transmit: "P [38] [00] [16 bytes from the file] [1 byte checksum]"
3. Wait to receive a "P" back from TCU
4. Transmit: "P [38] [10] [16 bytes from the file] [1 byte checksum]"
5. Wait to receive a "P" back from TCU
6. Repeat until end of file...
7. Transmit: "S" for finish 16-byte write.