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Reference: CS-230 Comm Porotocol for GPS Application

Port Setting: 4800,N,8,1

DATA FORMAT

Data format sent to a CS-230/CS-230AC unit.

RES	COM	LEN	MSB	LSB	MCS
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Reply from CS-230

RES	COM	LEN	MSB	LSB	B[0] ... B[N]	MCS
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RES: Not relevant, any number between 0 and 255
 LEN: Number of bytes to read or write plus 6
 MSB: Most significant part of the specified address
 LSB: Least significant part of the specified address
 B[0]: First data byte to be read or written at address (MSB*256+LSB)
 B[N]: Last data byte to be read or written at address (MSB*256+LSB)
 MCS: The least significant byte of the checksum word (the sum of all message bytes excluding checksum)
 COM: Command byte as defined in the following

B7 B6 B5 B4 B3 B2 B1 B0

B0: 1-Read, 0-Write

B1: Always 1

B2 B3 B4 B5 B6: The most significant 4 bits of the checksum word

B7: Even parity bit. If the total of all '1' bits of bit 6-0 from the 'COM' byte and bit 7-0 of the MCS byte is even, bit 7 of the 'COM' byte will be '1' else '0'.

MEMORY MAP

Variable	Bytes	Value	Address
Application Rate Selected	2	0-9999 lb/mi	0x34D
Application Rate Selected	2	0-9999 kg/km	0x34F

Actual Application Rate	2	0-9999 kg/km or lb/mi	0x2BC
Spread Width Selected	2	0-100%	0x351
Material Selected	1	0-3 (Material 1 –4)	0x4CF
Gate Selected	1		0x507
Blast Mode	1	0-Off, 1-On	0x25A
Pause Mode	1	0-Off, 1-On	0x26E
Error logged	1		0x4D2
Driver ID	1		0x2FEE
Season Qty (Material 1)	4		0x3910
Season Qty (Material 2)	4		0x3914
Season Qty (Material 3)	4		0x3918
Season Qty (Material 4)	4		0x391C
Operation Mode	1	0-Auto, 1-Open, 2-Man	0x205

CABLE PIN OUT

For CS-230 units

+12V DC ----- 1
2 ----- 2
3 ----- 3
5 ----- 5

For CS-230AC units

2 ----- 2
3 ----- 3
5 ----- 5