



AMENDMENT TO:

SPR-02

USER MANUAL
FOR S28-32-5

Version A



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This is amendment to an operational guide and technical manual that offers guidelines on how to install, configure and operate the DynaVision® SPR-02 Intelligent Single Point Sensor.

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OPERATIONAL FEATURES AND SPECIFICATIONS

Range	28" to 32" (711.2 to 812.8 mm) Actual range is determined by the sensor
Programmable Sample Rate	1.50ms
Sample Buffer in	8192 samples (8 Kbytes)

COMMAND

05 SCAN INTERVAL

PURPOSE Sets the rate the sensor fills the internal sample buffer. *scan interval* indicates the number of internal clock ticks (1.50 ms) which elapse between updates. To store samples in the scan buffer use the commands 'START SCAN' and 'STOP SCAN'.

Command Format [command] [scan interval]

<i>Command</i>	(1 byte)	05
<i>scan interval</i>	(1 word)	1 ... 32000 (x 1.50ms)

Response Format: if using CRC: [Command]

Command	(Byte)	05	Success
		0	Fail

If using ChkSum: None

205 SCAN INTERVAL

PURPOSE Sets the rate the sensor fills the internal sample buffer. *scan interval* indicates the number of internal clock ticks (1.50 ms) which elapse between updates. To store

samples in the scan buffer use the commands ‘START SCAN’ and ‘STOP SCAN’.

Command Format [command] [scan interval]

<i>Command</i>	(1 byte)	205
<i>scan interval</i>	(1 word)	1 ... 32000 (x .60ms)

Response Format: if using CRC: [Command]

Command	(Byte)	205	Success
		0	Fail

If using ChkSum: None

COMMAND	33	SET CONFIGURATION VARIABLES
PURPOSE		Sets laser power and sample interval and send them directly to the RAM.

Command Format

[command][lasercfg][laserpwr][lointerval][hiinterval][reserved]

<i>command</i>	(1 byte)	33
<i>lasercfg</i>	(1 word)	Reserved
<i>laserpwr</i>	(1 word)	0...31744
<i>period</i>	(2 words)	low word, high word [1500,3000,4500...]
<i>reserved</i>	(1 word)	0

Response Format: if using CRC: [Command]

Command	(Byte)	33	Success
		0	Fail

If using ChkSum: None

COMMAND	233	SET CONFIGURATION VARIABLES	
PURPOSE	Sets laser power and sample interval and store them in the Flash and RAM.		
Command Format			
[<i>command</i>][<i>lasercfg</i>][<i>laserpwr</i>][<i>lointerval</i>][<i>hiinterval</i>][<i>reserved</i>]			
	<i>command</i>	(1 byte)	233
	<i>lasercfg</i>	(1 word)	Reserved
	<i>laserpwr</i>	(1 word)	0...31744
	<i>period</i>	(2 words)	low word, high word [1500,3000,4500...] (x 0.01ms)
	<i>reserved</i>	(1 word)	0
Response Format:	if using CRC: [Command]		
	Command	(Byte)	233
			Success
			0
			Fail
If using ChkSum: None			