Laser Distance Sensors

MRL-B Application Note A1 001

User configured accuracy and range (s *N*ur)

If an application does not require the maximum measuring range (500m) and/or the maximum accuracy (±1 .5mm/±3mm) these settings can be changed to give a decrease in the measurement time using the following commands.

Configuration command:

User configured accuracy and range (s *N*ur)
The distance measurement is configured to fulfill the settings according to the following command and then it is possible to reduce the maximum distance and/or accuracy and reduce the corresponding measurement time. Since not all settings are possible, the Get command returns the operative settings. The application of this command only affects the user configured commands.

	Set Command	**Get Command**
Command	s*N*ur+xxxxxxxx+yyyyyyyy< trm>	s *N*ur
Return successful	g*N*ur+aaaaaaaa+bbbbbbbb<trm>	g*N*ur+aaaaaaaa+bbbbbbbb<trm>
Return Error	g*N*@Ezzz<trm>	g*N*@Ezzz<trm>
Parameters	*N* Module number (0. .9) xxxxxxxx Desired Accuracy in 0.1mm yyyyyyyy Desired max distance in 0.1mm aaaaaaaa Effective Accuracy in 0.1mm bbbbbbbb Effective Max distance in 0.1mm zzz Error code	

To (For) save (saving) the new settings, please use the "Save configuration parameters"-command (s *N*s).

Possible measuring commands:
Only the following commands are influenced by the above settings. All these commands are described in the "Technical Reference Manual" in chapter: "8.5 Special User Commands" which may be downloaded from www.metrologyresource.com
User configured distance measurement (s *N*ug)

User-configured single sensor tracking (s *N*uh)

User-configured tracking with buffering – Start (s *N*uf) Read out
User-configured tracking with buffering (s *N*uq)

Important Notices:
The standard measurement commands s *N*g / s*N*h / s*N*f and s*N*q are NOT influenced. They will always operate with the MRC specified measuring range (500m) and maximum accuracy (±1 .5mm/±3mm).
After a device-reset the "User configured accuracy and range (s *N*ur)-configuration" will be set back to it's default values (500m and maximum accuracy).