

EN

BLN0x1R20

Barcode Line Scanner CCD array



Interface Protocol

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1. Product List

The following products are described in this data sheet:

- BLN0L1R20
- BLN0H1R20

2. Interface

The products can be addressed with the following commands. Commands can be transmitted via either the serial port or the Ethernet interface.

The RS-232 interface and the Ethernet interface (TCP socket) are interfaces for device parametrization. The settings for both interfaces are described in section "8.3 Device Settings".

In the following, the structure as well as the available interface commands are described.



NOTE!

The web server is not available during an active socket connection

2.1. Transmission Format

If several commands need to be transmitted one after the other, the next respective command cannot be transmitted until a response to the previous command has been received. Data are transmitted in ASCII format.

2.2. Layout

Differentiation is made between two types of commands: a command for reading out settings which can be recognized by the fact that it includes "Get" as a supplement, for example **GetDisplay**, and a command for setting parameters which can be recognized by the fact that it includes "Set" as a supplement, for example **SetDisplay**.

The commands are always laid in accordance with the same pattern:

<LIMA DIR="Request" CMD="SetDisplay" NAME="Language" VALUE="German"/>			
└──────────┘	└──────────┘	└──────────┘	└──────────┘
Protocol header	Command	Name	Value

After the command has been correctly received and processed, the Scanner responds with a slightly modified command.

```
<LIMA DIR="ReplyOk" CMD="SetDisplay" />
```

2.3. Commands

Querying of the following information:

Firmware:

```
<LIMA DIR="Request" CMD="GetIdentification" NAME="Firmware"/>
```

Serial number:

```
<LIMA DIR="Request" CMD="GetIdentification" NAME="SerialNumber"/>
```

MAC address:

```
<LIMA DIR="Request" CMD="GetIdentification" NAME="MACAddress"/>
```

Order number:

```
<LIMA DIR="Request" CMD="GetIdentification" NAME="SensorName"/>
```

Transmit trigger pulse:

```
<T/>
```

Response:

```
<Tok/>
```

Transmit apply trigger pulse:

```
<LIMA DIR="Request" CMD="GetInterface" NAME="TriggerReplyActive"/>
```

```
<LIMA DIR="Request" CMD="SetInterface" NAME="TriggerReplyActive" VALUE="Enable"/>
```

```
<LIMA DIR="Request" CMD="SetInterface" NAME="TriggerReplyActive" VALUE="Disable"/>
```

Change Trigger Character:

```
<LIMA DIR="Request" CMD="GetInterface" NAME="TriggerCharacter"/>
```

```
<LIMA DIR="Request" CMD="SetInterface" NAME="TriggerCharacter" VALUE="T"/>
```

```
<LIMA DIR="Request" CMD="GetInterface" NAME="TriggerSerialStartCharacter"/>
```

```
<LIMA DIR="Request" CMD="SetInterface" NAME="TriggerSerialStartCharacter" VALUE="1"/>
```

```
<LIMA DIR="Request" CMD="GetInterface" NAME="TriggerSerialStopCharacter"/>
```

```
<LIMA DIR="Request" CMD="SetInterface" NAME="TriggerSerialStopCharacter" VALUE="2"/>
```

Restart Scanner:

```
<LIMA DIR="Request" CMD="Reboot"/>
```

Reset Scanner to factory default settings:

```
<LIMA DIR="Request" CMD="FactorySettings"/>
```

IP address settings:

```
<LIMA DIR="Request" CMD="GetInterface" NAME="IPAddress"/>
```

```
<LIMA DIR="Request" CMD="SetInterface" NAME="IPAddress" VALUE="192.168.100.1"/>
```

Subnet mask settings:

```
<LIMA DIR="Request" CMD="GetInterface" NAME="SubnetMask"/>
<LIMA DIR="Request" CMD="SetInterface" NAME="SubnetMask" VALUE="255.255.255.0"/>
```

Standard gateway settings:

```
<LIMA DIR="Request" CMD="GetInterface" NAME="Gateway"/>
<LIMA DIR="Request" CMD="SetInterface" NAME="Gateway" VALUE="192.168.100.254"/>
```

Activate or deactivate the DHCP client:

```
<LIMA DIR="Request" CMD="GetInterface" NAME="DHCP"/>
<LIMA DIR="Request" CMD="SetInterface" NAME="DHCP" VALUE="ON"/>
<LIMA DIR="Request" CMD="SetInterface" NAME="DHCP" VALUE="OFF"/>
```

Broadcast command for executing all network settings together:

```
<LIMA DIR="Request" CMD="SetInterface" NAME="NetworkSettingsWithReboot"
VALUE="192.168.100.1;255.255.255.0;192.168.100.254;OFF"/>
```

TCP port settings:

```
<LIMA DIR="Request" CMD="GetInterface" NAME="TCPPort"/>
<LIMA DIR="Request" CMD="SetInterface" NAME="TCPPort" VALUE="2000"/>
```

Query statistical data for Ethernet connection:

```
<LIMA DIR="Request" CMD="GetInterface" NAME="SentPackets"/>
<LIMA DIR="Request" CMD="GetInterface" NAME="ReceivedPackets"/>
<LIMA DIR="Request" CMD="GetInterface" NAME="DroppedPackets"/>
```

Serial port baud rate setting:

```
<LIMA DIR="Request" CMD="GetInterface" NAME="BaudRate"/>
<LIMA DIR="Request" CMD="SetInterface" NAME="BaudRate" VALUE="19200"/>
```

Serial port data bits:

```
<LIMA DIR="Request" CMD="GetInterface" NAME="Databits"/>
<LIMA DIR="Request" CMD="SetInterface" NAME="Databits" VALUE="7"/>
<LIMA DIR="Request" CMD="SetInterface" NAME="Databits" VALUE="8"/>
```

Serial port parity:

```
<LIMA DIR="Request" CMD="GetInterface" NAME="Parity"/>
<LIMA DIR="Request" CMD="SetInterface" NAME="Parity" VALUE="None"/>
<LIMA DIR="Request" CMD="SetInterface" NAME="Parity" VALUE="Even"/>
<LIMA DIR="Request" CMD="SetInterface" NAME="Parity" VALUE="Odd"/>
<LIMA DIR="Request" CMD="SetInterface" NAME="Parity" VALUE="Mark"/>
<LIMA DIR="Request" CMD="SetInterface" NAME="Parity" VALUE="Space"/>
```

Serial port stop bits:

```
<LIMA DIR="Request" CMD="GetInterface" NAME="Stopbits"/>
<LIMA DIR="Request" CMD="SetInterface" NAME="Stopbits" VALUE="1"/>
<LIMA DIR="Request" CMD="SetInterface" NAME="Stopbits" VALUE="2"/>
```

Text of the first line in the OLED:

```
<LIMA DIR="Request" CMD="GetInterface" NAME="DeviceName"/>
<LIMA DIR="Request" CMD="SetInterface" NAME="DeviceName" VALUE="Device name"/>
```

Web server user name:

```
<LIMA DIR="Request" CMD="SetInterface" NAME="UserName" VALUE="admin"/>
```

Web server password:

```
<LIMA DIR="Request" CMD="SetInterface" NAME="UserPassword" VALUE="admin"/>
```

Last decoded code:

```
<LIMA DIR="Request" CMD="GetProcessData" NAME="DecodedData"/>
```

Statistical data – number of trigger pulses:

```
<LIMA DIR="Request" CMD="GetProcessData" NAME="TriggerCount"/>
```

Statistical data – number of good reads:

```
<LIMA DIR="Request" CMD="GetProcessData" NAME="GoodReadCount"/>
```

Statistical data – number of no reads:

```
<LIMA DIR="Request" CMD="GetProcessData" NAME="NoReadCount"/>
```

Statistical data – number of successful match comparisons:

```
<LIMA DIR="Request" CMD="GetProcessData" NAME="MatchCount"/>
```

Statistical data – number of unsuccessful match comparisons:

```
<LIMA DIR="Request" CMD="GetProcessData" NAME="MismatchCount"/>
```

Statistical data – reset all statistics counters to 0:

```
<LIMA DIR="Request" CMD="SetProcessData" NAME="Counter" VALUE="Reset"/>
```

Reading cycle:

```
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="MatchCode"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="MatchCode" VALUE="12345678"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="MatchCodeType"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="MatchCodeType" VALUE="Enable"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="MatchCodeType" VALUE="Disable"/>
```

```

<LIMA DIR="Request" CMD="GetSignalParameter" NAME="ReplaceOnMatch"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="ReplaceOnMatch" VALUE="Enable"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="ReplaceOnMatch" VALUE="Disable"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="ReplaceOnMatchString"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="ReplaceOnMatchString"VALUE="MAT
CH"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="ReplaceOnMismatch"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="ReplaceOnMismatch"VALUE="Enable"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="ReplaceOnMismatch"VALUE="Disable"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="ReplaceOnMismatchString"/>
<LIMA DIR="Request"CMD="SetSignalParameter"NAME="ReplaceOnMismatchString"
VALUE="MISMATCH"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="ReadTimeout"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="ReadTimeout" VALUE="2000"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="GoodReadLEDActive"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="GoodReadLEDActive" VALUE="ON"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="GoodReadLEDActive" VALUE="OFF"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="ReadingMode"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="ReadingMode" VALUE="Trigger"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="ReadingMode" VALUE="Continuous"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="ReadingMode" VALUE="TriggerLevel"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="ReadingMode" VALUE="TriggerSerial"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="CodeID"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="CodeID" VALUE="DisableCodeID"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="CodeID" VALUE="FactoryIDOn"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="CodeID" VALUE="AIMIDOn"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="CodeID" VALUE="SetIDOn"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="SendDataLength"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="SendDataLength" VALUE="OFF"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="SendDataLength" VALUE="ON"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="LabelType"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="LabelType"
VALUE="PositiveAndNegative"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="TerminatorChar1"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="TerminatorChar1" VALUE="13"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="TerminatorChar2"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="TerminatorChar2" VALUE="10"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Preamble"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Preamble" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Preamble" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="PreambleChar1"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="PreambleChar1" VALUE="61"/>

```

```

<LIMA DIR="Request" CMD="GetSignalParameter" NAME="PreambleChar2"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="PreambleChar2" VALUE="62"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="PreambleChar3"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="PreambleChar3" VALUE="63"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="PreambleChar4"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="PreambleChar4" VALUE="64"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="PreambleChar5"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="PreambleChar5" VALUE="65"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Postamble"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Postamble" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Postamble" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="PostambleChar1"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="PostambleChar1" VALUE="61"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="PostambleChar2"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="PostambleChar2" VALUE="62"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="PostambleChar3"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="PostambleChar3" VALUE="63"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="PostambleChar4"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="PostambleChar4" VALUE="64"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="PostambleChar5"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="PostambleChar5" VALUE="65"/>

```

Parameter, code 39:

```

<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Code39"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code39" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code39" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Code39CheckCharacterStatus"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code39CheckCharacterStatus"
VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code39CheckCharacterStatus"
VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Code39CheckCharacterOutputStatus"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code39CheckCharacterOutputStatus"
VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code39CheckCharacterOutputStatus"
VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Code39StartStopCharacterStatus"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code39StartStopCharacterStatus"
VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code39StartStopCharacterStatus"
VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Code39MinimumSymbolLength"/>

```

```
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code39MinimumSymbolLength"
VALUE="1"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Code39MaximumSymbolLength"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code39MaximumSymbolLength"
VALUE="48"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Code39FullASCIISet"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code39FullASCIISet" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code39FullASCIISet" VALUE="Disabled"/>
```

Parameter, code 11:

```
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Code11"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code11" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code11" VALUE="Disabled"/>
```

Parameter, code 128:

```
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Code128"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code128" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code128" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Code128MinimumSymbolLength"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code128MinimumSymbolLength"
VALUE="5"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Code128MaximumSymbolLength"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code128MaximumSymbolLength"
VALUE="48"/>
```

Parameter, EAN-128:

```
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="EAN-128"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="EAN-128" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="EAN-128" VALUE="Disabled"/>
```

Parameter, Interleaved 2/5:

```
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Interleaved2/5"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Interleaved2/5" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Interleaved2/5" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Interleaved2/5CheckCharacterStatus"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Interleaved2/5CheckCharacterStatus"
VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Interleaved2/5CheckCharacterStatus"
VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Interleaved2/5CheckCharacter
OutputStatus"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Interleaved2/5CheckCharacter
```

```

OutputStatus" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Interleaved2/5CheckCharacter
OutputStatus" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Interleaved2/5Minimum
SymbolLength"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Interleaved2/5MinimumSymbolLength"
VALUE="6"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Interleaved2/5Maximum
SymbolLength"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Interleaved2/5Maximum
SymbolLength" VALUE="48"/>

```

Parameter, Codabar:

```

<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Codabar"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Codabar" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Codabar" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="CodabarCheckCharacterStatus"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="CodabarCheckCharacterStatus"
VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="CodabarCheckCharacterStatus"
VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="CodabarCheckCharacter
OutputStatus"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="CodabarCheckCharacterOutputStatus"
VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="CodabarCheckCharacterOutputStatus"
VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="CodabarStartStopCharacterStatus"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="CodabarStartStopCharacterStatus"
VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="CodabarStartStopCharacterStatus"
VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="CodabarMinimumSymbolLength"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="CodabarMinimumSymbolLength"
VALUE="6"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="CodabarMaximumSymbolLength"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="CodabarMaximumSymbolLength" VAL-
UE="48"/>

```

Parameter, UPC-A:

```
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="UPC-A"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="UPC-A" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="UPC-A" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="UPC-ASupplement5"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="UPC-ASupplement5" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="UPC-ASupplement5" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="UPC-ASupplement2"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="UPC-ASupplement2" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="UPC-ASupplement2" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="UPC-E"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="UPC-E" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="UPC-E" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="UPC-ESupplement5"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="UPC-ESupplement5" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="UPC-ESupplement5" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="UPC-ESupplement2"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="UPC-ESupplement2" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="UPC-ESupplement2" VALUE="Disabled"/>
```

Parameter, EAN-8:

```
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="EAN-8"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="EAN-8" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="EAN-8" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="EAN-8Supplement5"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="EAN-8Supplement5" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="EAN-8Supplement5" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="EAN-8Supplement2"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="EAN-8Supplement2" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="EAN-8Supplement2" VALUE="Disabled"/>
```

Parameter, EAN-13:

```
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="EAN-13"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="EAN-13" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="EAN-13" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="EAN-13Supplement5"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="EAN-13Supplement5" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="EAN-13Supplement5" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="EAN-13Supplement2"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="EAN-13Supplement2" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="EAN-13Supplement2" VALUE="Disabled"/>
```

Parameter, code 39:

```

<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Code93"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code93" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Code93" VALUE="Disabled"/>

```

Parameter, Industrial 2/5:

```

<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Industrial2/5"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Industrial2/5" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Industrial2/5" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Industrial2/5CheckCharacterStatus"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Industrial2/5CheckCharacterStatus"
VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Industrial2/5CheckCharacterStatus"
VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Industrial2/5CheckCharacter
OutputStatus"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Industrial2/5CheckCharacter
OutputStatus" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Industrial2/5CheckCharacter
OutputStatus" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Industrial2/5MinimumSymbolLength"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Industrial2/5MinimumSymbolLength"
VALUE="6"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Industrial2/5MaximumSymbolLength"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Industrial2/5MaximumSymbolLength"
VALUE="48"/>

```

Parameter, MSIPlessy:

```

<LIMA DIR="Request" CMD="GetSignalParameter" NAME="MSIPlessy"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="MSIPlessy" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="MSIPlessy" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="MSIPlessyCheckCharacterStatus"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="MSIPlessyCheckCharacterStatus"
VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="MSIPlessyCheckCharacterStatus"
VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="MSIPlessyCheckCharacterOutputStatus"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="MSIPlessyCheckCharacterOutputStatus"
VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="MSIPlessyCheckCharacterOutputStatus"
VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="MSIPlessyMinimumSymbolLength"/>

```

```
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="MSIPlessyMinimumSymbolLength"
VALUE="6"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="MSIPlessyMaximumSymbolLength"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="MSIPlessyMaximumSymbolLength"
VALUE="48"/>
```

Parameter, UKPlessy:

```
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="UKPlessy"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="UKPlessy" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="UKPlessy" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="UKPlessyCheckCharacter
OutputStatus"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="UKPlessyCheckCharacter
OutputStatus" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="UKPlessyCheckCharacter
OutputStatus" VALUE="Disabled"/>
```

Parameter, RSS Expanded:

```
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="RSSExpanded"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="RSSExpanded" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="RSSExpanded" VALUE="Disabled"/>
```

Parameter, RSSLimited:

```
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="RSSLimited"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="RSSLimited" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="RSSLimited" VALUE="Disabled"/>
```

Parameter, RSS-14:

```
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="RSS-14"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="RSS-14" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="RSS-14" VALUE="Disabled"/>
```

Parameter, Matrix 2/5:

```
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Matrix2/5"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Matrix2/5" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Matrix2/5" VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Matrix2/5CheckCharacterStatus"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Matrix2/5CheckCharacterStatus"
VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Matrix2/5CheckCharacterStatus"
VALUE="Disabled"/>
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="Matrix2/5CheckCharacter
OutputStatus"/>
```

```
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Matrix2/5CheckCharacter
OutputStatus" VALUE="Enabled"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="Matrix2/5CheckCharacter
OutputStatus" VALUE="Disabled"/>
```

I/O settings, I/O1:

```
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA1" NAME="Type"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA1" NAME="Logic"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA1" NAME="OutputMode"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA1" NAME="OutputEvent"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA1" NAME="InputEvent"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA1" NAME="OnDelay"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA1" NAME="OffDelay"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA1" NAME="Impulse"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA1" NAME="Settings"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA1" NAME="Type" VALUE="Input"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA1" NAME="Type" VALUE="Output"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA1" NAME="Type" VALUE="Nothing"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA1" NAME="OutputMode" VALUE="PNP"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA1" NAME="OutputMode" VALUE="NPN"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA1" NAME="OutputMode" VALUE="PushPull"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA1" NAME="OutputEvent" VALUE="GoodRead"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA1" NAME="OutputEvent" VALUE="NoRead"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA1" NAME="OutputEvent" VALUE="Match"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA1" NAME="OutputEvent" VALUE="Mismatch"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA1" NAME="InputEvent" VALUE="Trigger"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA1" NAME="InputEvent" VALUE="NewMaster"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA1" NAME="Logic" VALUE="NO"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA1" NAME="Logic" VALUE="NC"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA1" NAME="OnDelay" VALUE="0"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA1" NAME="OffDelay" VALUE="50"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA1" NAME="Impulse" VALUE="50"/>
```

I/O settings, I/O2:

```
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA2" NAME="Type"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA2" NAME="Logic"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA2" NAME="OutputMode"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA2" NAME="OutputEvent"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA2" NAME="InputEvent"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA2" NAME="OnDelay"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA2" NAME="OffDelay"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA2" NAME="Impulse"/>
```

```

<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA2" NAME="Settings"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA2" NAME="Type" VALUE="Input"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA2" NAME="Type" VALUE="Output"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA2" NAME="Type" VALUE="Nothing"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA2" NAME="OutputMode" VALUE="PNP"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA2" NAME="OutputMode" VALUE="NPN"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA2" NAME="OutputMode" VALUE="PushPull"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA2" NAME="OutputEvent" VALUE="GoodRead"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA2" NAME="OutputEvent" VALUE="NoRead"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA2" NAME="OutputEvent" VALUE="Match"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA2" NAME="OutputEvent" VALUE="Mismatch"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA2" NAME="InputEvent" VALUE="Trigger"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA2" NAME="InputEvent" VALUE="NewMaster"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA2" NAME="Logic" VALUE="NO"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA2" NAME="Logic" VALUE="NC"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA2" NAME="OnDelay" VALUE="0"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA2" NAME="OffDelay" VALUE="50"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA2" NAME="Impulse" VALUE="50"/>

```

I/O settings, I/O3:

```

<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA3" NAME="Type"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA3" NAME="Logic"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA3" NAME="OutputMode"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA3" NAME="OutputEvent"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA3" NAME="InputEvent"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA3" NAME="OnDelay"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA3" NAME="OffDelay"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA3" NAME="Impulse"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA3" NAME="Settings"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA3" NAME="Type" VALUE="Input"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA3" NAME="Type" VALUE="Output"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA3" NAME="Type" VALUE="Nothing"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA3" NAME="OutputMode" VALUE="PNP"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA3" NAME="OutputMode" VALUE="NPN"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA3" NAME="OutputMode" VALUE="PushPull"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA3" NAME="OutputEvent" VALUE="GoodRead"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA3" NAME="OutputEvent" VALUE="NoRead"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA3" NAME="OutputEvent" VALUE="Match"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA3" NAME="OutputEvent" VALUE="Mismatch"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA3" NAME="InputEvent" VALUE="Trigger"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA3" NAME="InputEvent" VALUE="NewMaster"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA3" NAME="Logic" VALUE="NO"/>

```

```

<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA3" NAME="Logic" VALUE="NC"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA3" NAME="OnDelay" VALUE="0"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA3" NAME="OffDelay" VALUE="50"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA3" NAME="Impulse" VALUE="50"/>

```

I/O settings, I/O4:

```

<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA4" NAME="Type"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA4" NAME="Logic"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA4" NAME="OutputMode"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA4" NAME="OutputEvent"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA4" NAME="InputEvent"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA4" NAME="OnDelay"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA4" NAME="OffDelay"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA4" NAME="Impulse"/>
<LIMA DIR="Request" CMD="GetEA" CHANNEL="EA4" NAME="Settings"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA4" NAME="Type" VALUE="Input"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA4" NAME="Type" VALUE="Output"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA4" NAME="Type" VALUE="Nothing"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA4" NAME="OutputMode" VALUE="PNP"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA4" NAME="OutputMode" VALUE="NPN"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA4" NAME="OutputMode" VALUE="PushPull"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA4" NAME="OutputEvent" VALUE="GoodRead"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA4" NAME="OutputEvent" VALUE="NoRead"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA4" NAME="OutputEvent" VALUE="Match"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA4" NAME="OutputEvent" VALUE="Mismatch"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA4" NAME="InputEvent" VALUE="Trigger"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA4" NAME="InputEvent" VALUE="NewMaster"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA4" NAME="Logic" VALUE="NO"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA4" NAME="Logic" VALUE="NC"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA4" NAME="OnDelay" VALUE="0"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA4" NAME="OffDelay" VALUE="50"/>
<LIMA DIR="Request" CMD="SetEA" CHANNEL="EA4" NAME="Impulse" VALUE="50"/>

```

I/O – test I/O1:

```

<LIMA DIR="Request" CMD="SetTest" NAME="TestA1" VALUE="ON"/>
<LIMA DIR="Request" CMD="SetTest" NAME="TestA1" VALUE="OFF"/>
<LIMA DIR="Request" CMD="GetTest" NAME="TestE1"/>
<LIMA DIR="Request" CMD="GetTest" NAME="TestE1"/>

```

I/O – test I/O2:

```
<LIMA DIR="Request" CMD="SetTest" NAME="TestA2" VALUE="ON"/>
<LIMA DIR="Request" CMD="SetTest" NAME="TestA2" VALUE="OFF"/>
<LIMA DIR="Request" CMD="GetTest" NAME="TestE2"/>
<LIMA DIR="Request" CMD="GetTest" NAME="TestE2"/>
```

I/O – test I/O3:

```
<LIMA DIR="Request" CMD="SetTest" NAME="TestA3" VALUE="ON"/>
<LIMA DIR="Request" CMD="SetTest" NAME="TestA3" VALUE="OFF"/>
<LIMA DIR="Request" CMD="GetTest" NAME="TestE3"/>
<LIMA DIR="Request" CMD="GetTest" NAME="TestE3"/>
```

I/O – test I/O4:

```
<LIMA DIR="Request" CMD="SetTest" NAME="TestA4" VALUE="ON"/>
<LIMA DIR="Request" CMD="SetTest" NAME="TestA4" VALUE="OFF"/>
<LIMA DIR="Request" CMD="GetTest" NAME="TestE4"/>
<LIMA DIR="Request" CMD="GetTest" NAME="TestE4"/>
```

Good read:

```
<LIMA DIR="Request" CMD="SetTest" NAME="GoodReadLED" VALUE="ON"/>
<LIMA DIR="Request" CMD="SetTest" NAME="GoodReadLED" VALUE="OFF"/>
```

Enable NoRead message:

```
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="NoReadMessageActive"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="NoReadMessageActive"
VALUE="Enable"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="NoReadMessageActive"
VALUE="Disable"/>
```

NoRead message text:

```
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="NoReadMessage"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="NoReadMessage" VALUE="NoRead"/>
```

Enable service message:

```
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="ServiceMessageActive"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="ServiceMessageActive"
VALUE="Enable"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="ServiceMessageActive"
VALUE="Disable"/>
```

Service message text:

```
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="ServiceMessage"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="ServiceMessage" VALUE="Service"/>
```

Service message interval:

```
<LIMA DIR="Request" CMD="GetSignalParameter" NAME="ServiceMessagePeriod"/>
<LIMA DIR="Request" CMD="SetSignalParameter" NAME="ServiceMessagePeriod" VALUE="60"/>
```

Reading performance:

```
<LIMA DIR="Request" CMD="GetProcessData" NAME="ReadingPerformanceActive"/>
<LIMA DIR="Request" CMD="SetProcessData" NAME="ReadingPerformanceActive"
VALUE="Enable"/>
<LIMA DIR="Request" CMD="SetProcessData" NAME="ReadingPerformanceActive"
VALUE="Disable"/>
```

Reading performance interval:

```
<LIMA DIR="Request" CMD="GetProcessData" NAME="ReadingPerformancePeriod"/>
<LIMA DIR="Request" CMD="SetProcessData" NAME="ReadingPerformancePeriod" VALUE="5"/>
```

Rotate display:

```
<LIMA DIR="Request" CMD="GetDisplay" NAME="Rotate"/>
<LIMA DIR="Request" CMD="SetDisplay" NAME="Rotate" VALUE="ON"/>
<LIMA DIR="Request" CMD="SetDisplay" NAME="Rotate" VALUE="OFF"/>
```

Display intensity:

```
<LIMA DIR="Request" CMD="GetDisplay" NAME="Intensity"/>
<LIMA DIR="Request" CMD="SetDisplay" NAME="Intensity" VALUE="Min"/>
<LIMA DIR="Request" CMD="SetDisplay" NAME="Intensity" VALUE="Normal"/>
<LIMA DIR="Request" CMD="SetDisplay" NAME="Intensity" VALUE="Max"/>
<LIMA DIR="Request" CMD="SetDisplay" NAME="Intensity" VALUE="PowerSave"/>
<LIMA DIR="Request" CMD="SetDisplay" NAME="Intensity" VALUE="ScreenSaver"/>
```

Display mode:

```
<LIMA DIR="Request" CMD="GetDisplay" NAME="Mode"/>
<LIMA DIR="Request" CMD="SetDisplay" NAME="Mode" VALUE="EA"/>
<LIMA DIR="Request" CMD="SetDisplay" NAME="Mode" VALUE="MatchCode"/>
<LIMA DIR="Request" CMD="SetDisplay" NAME="Mode" VALUE="Text"/>
<LIMA DIR="Request" CMD="SetDisplay" NAME="Text" VALUE="Hello world!"/>
<LIMA DIR="Request" CMD="SetDisplay" NAME="Mode" VALUE="ReadingPerformance"/>
```

Display language settings:

```
<LIMA DIR="Request" CMD="GetDisplay" NAME="Language"/>
<LIMA DIR="Request" CMD="SetDisplay" NAME="Language" VALUE="German"/>
<LIMA DIR="Request" CMD="SetDisplay" NAME="Language" VALUE="English"/>
<LIMA DIR="Request" CMD="SetDisplay" NAME="Language" VALUE="French"/>
<LIMA DIR="Request" CMD="SetDisplay" NAME="Language" VALUE="Spanish"/>
<LIMA DIR="Request" CMD="SetDisplay" NAME="Language" VALUE="Italian"/>
```