

TI C2000 Toolbox SCI Write SCADA Widget

This document describes *SCI Write* SCADA widget from TI C2000 Toolbox widget library.

Short description

SCI Write widget is used to write message to COM port and send them to the MCU. In order to successfully write (send) data to the MCU, generated code must include [SCI Receive Schematic Editor component](#) (and vice versa, *SCI Write* widget should not be present on SCADA panel if [SCI Receive](#) is not included in generated code).

One instance of *SCI Write* widget should be used for each message defined in *Message configuration* property of [SCI Receive](#) component. This widget should be used if *Access port* property of [SCI Receive](#) component is set to *USB*.

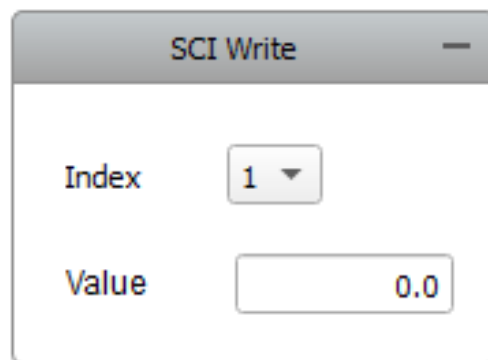


Figure 1. SCI Write – Textbox widget.

IMPORTANT NOTE: [SCI Setup Schematic Editor component](#), [SCI Receive Schematic Editor component](#) and [SCI Setup SCADA widget](#) must be configured before attempting to send any message.

SCI Write widget is available in form of a textbox, slider and checkbox (if just 0 or 1 is being sent).

Properties

- **Index** - message identification. If [SCI Setup widget](#) is properly configured, messages are organized in the same way as they are in *Message configuration* property of [SCI Receive Schematic Editor component](#). For example, by selecting an *Index* value to be 1, it will set the value for the first message in the defined payload that controller will receive.
- **Value** - message content (number) – **strings are not supported!**

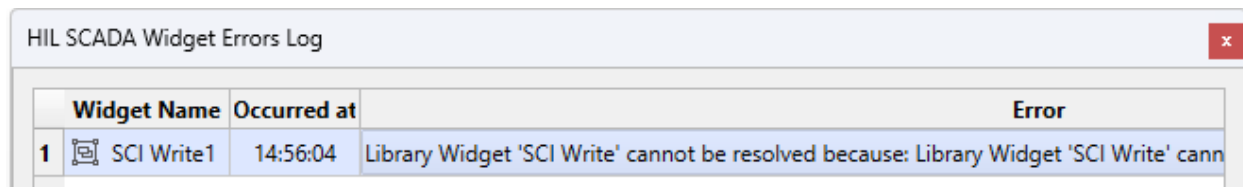
- **[min, max]** – available on SCI Write – Slider widget. Defines minimum and maximum available values of the slider. It should be defined as a list of two elements in ascending order.

Backward incompatibility

In *TI C2000 Toolbox* version 1.0.0 widget library suffered major changes. When it comes to *SCI Write* widget, previously there was just one type of *SCI Write* widget (with the text box), but with the new version, two more types are introduced. Now, the widget library contains three types of *SCI Write* widgets:

- SCI Write – Checkbox,
- SCI Write – Slider,
- SCI Write – Text Box.

Since every widget in the library must have the unique name, previous name *SCI Write* does not unambiguously represent any of the three widgets anymore. For this reason, SCADA panels with old *SCI Write* widgets will not recognize them anymore when loaded and a widget error flag will be raised (Fig. 2). They will appear like they are “unresolved” (Fig. 3). This is solved just by replacing them with the new *SCI Write* widgets.




HIL SCADA Widget Errors Log			
	Widget Name	Occurred at	Error
1	 SCI Write1	14:56:04	Library Widget 'SCI Write' cannot be resolved because: Library Widget 'SCI Write' cann

Figure 2. Widget error: *SCI Write* cannot be resolved.

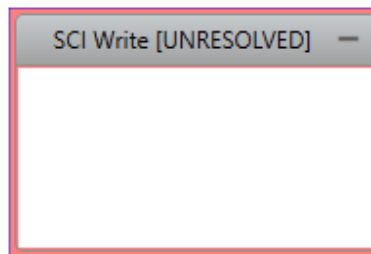


Figure 3. *SCI Write* unresolved widget.