

# 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*.

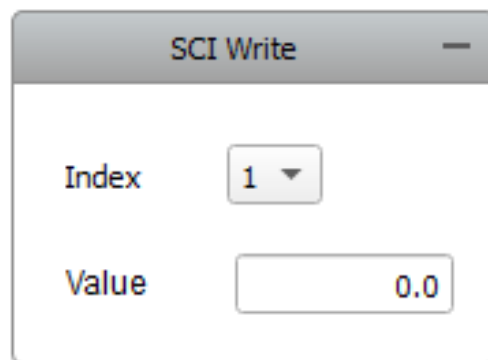


Figure 1. SCI Write – Textbox widget.

**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!**

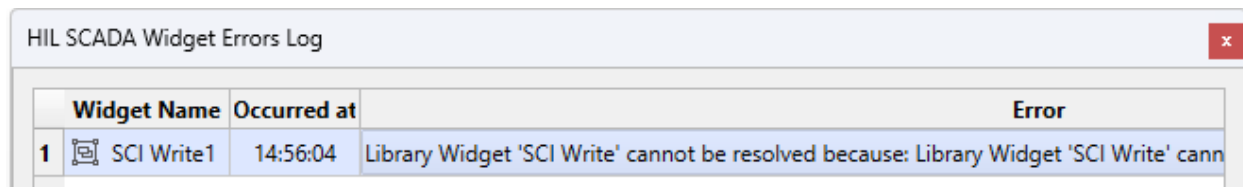
- **[min, max]** – available on SCI Write – Slider widget. Defines minimum and maximum available values of the slider. It should be defined as a list of two elements in ascending order.

## 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.

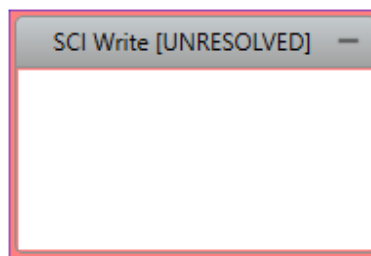


Figure 3. *SCI Write* unresolved widget.