FUTEK .NET API Documentation

FUTEK_USB_DLL Assembly / FUTEK_USB_DLL Namespace / USB_DLL Class

Collapse All Members Options: Filtered

USB_DLL Class Methods

In This Topic

Public Methods

See Also

For a list of all members of this type, see USB_DLL members.

Public Methods

	Name	Description
=∳	Change_Battery_Enter	Controls the "Battery / Enter" button on the keypad of the IHH500. Controls the "Channel / Enter" button on the keypad of the IPM650.
≘ ∳	Change_Display_Back	Controls the "Display / Back" button on the keypad of the IHH500 or IPM650.
≡ ∳	Change_Hold_Down	Controls the "Hold / Down" button on the keypad of the IHH500 or IPM650.
ΞΦ	Change_Menu	Controls the "Menu" button on the keypad of the IHH500 or IPM650.
= ↓	Change_Reset_Left	Controls the "Reset / Left" button on the keypad of the IHH500 or IPM650.
=•	Change_Shunt_Exit	Controls the "Shunt / Exit" button on the keypad of the IHH500 or IPM650.
≡ ∳	Change_Tare_Up	Controls the "Tare / Up" button on the keypad of the IHH500 or IPM650.

nit_Right Controls the "Unit / Right" button on the
keypad of the IHH500 or IPM650.
ice_Connection Closes a connection with the USB device and assigns a value to the DeviceStatus.
Create_Back_Up is a Function that is used to Create a Backup in Memory.
Request Gets the latest analog-to-digital converter (ADC) values in the buffer of the USB device.
_Page_Number Get_Active_Page_Number is a Function that returns a value representing the Active Page Number of the USB Device.
_Sound Gets the active sound stored in the EEPROM of the microcontroller.
PGA_Setting Get_ADC_PGA_Setting is a Function that returns a value representing the ADC PGA (Programmable Gain Amplifier) Setting.
Get_ADC_Sampling_Rate_Setting is a Function that returns a value representing the ADC Sampling Rate.
g_Voltage_Output Get_Analog_Voltage_Output is a Function that returns a value representing the Analog Voltage Output of the Device.
ge_Setting Get_Average_Setting is a Function that returns a value representing the Average Setting.
Rate Get_Baud_Rate is a Function that returns a value representing the Baud Rate (bits per second).
e_Resistance Get_Bridge_Resistance is a Function that returns a value representing the Bridge Resistance of the USB Device.
of the microcontroller. Get_ADC_PGA_Setting is a Function that returns a value representing the ADC PGA (Programmable Gain Amplifier) Setting. Gampling_Rate_Setting Get_ADC_Sampling_Rate_Setting is a Function that returns a value representing the ADC Sampling Rate. Get_Analog_Voltage_Output is a Function that returns a value representing the Analo Voltage Output of the Device. Get_Average_Setting is a Function that returns a value representing the Average Setting. Rate Get_Baud_Rate is a Function that returns a value representing the Baud Rate (bits per second).

≘ ∳	Get_Calibration_Code	Get_Calibration_Code is a Function that returns a value representing the Calibration Technician used during Calibration of the USB Device.
≡ ∳	Get_Calibration_Day	Get_Calibration_Day is a Function that returns a value representing the Calibration Day of the USB Device.
Ξψ	Get_Calibration_Month	Get_Calibration_Month is a Function that returns a value representing the Calibration Month of the USB Device.
∃	Get_Calibration_Year	Get_Calibration_Year is a Function that returns a value representing the Calibration Year of the USB Device.
=•	Get_Channel_Configuration	Gets the channel configuration stored in the EEPROM of the microcontroller.
Ξψ	Get_CrossTalk	Get_CrossTalk is a Function that returns a value representing the CrossTalk of the USB Device.
=•	Get_Data_Logging	Gets the data logging value stored in memory and assigns a value to the DataLogging_Counter, DataLogging_Value1 and DataLogging_Value2.
≡	Get_Decimal_Point	Get_Decimal_Point is a Function that returns a value representing the Decimal Point of the USB Device.
≘ ∳	Get_Destination_IP_Address	Get_Destination_IP_Address is a Function that returns a value representing the Destination IP Address of the Device.
∄ ∳	Get_Destination_MAC_Address	Get_Destination_MAC_Address is a Function that returns a value representing the Destination MAC Address of the Device.
=•	Get_Destination_Port_Number	Get_Destination_Port_Number is a Function that returns a value representing the

Destination Port Number of the Device.

∉∳	Get_Device_Count	Get_Device_Count is a Function that is used to get the USB Device count. It also assigns a value representing the DeviceStatus of the USB Device.
Ξψ	Get_Device_Serial_Number	Get_Device_Serial_Number is a Function that is used to get the USB Device Serial Number. It also assigns a value representing the DeviceStatus of the USB Device.
Ξψ	Get_Direction	Get_Direction is a Function that returns a value representing the Direction of the USB Device.
≡ ∳	Get_Display_Page	Gets the display page from the USB device.
=•	Get_Enabled_Channels	Gets the enabled channels stored in the EEPROM of the microcontroller.
Ξψ	Get_Excitation	Get_Excitation is a Function that returns a value representing the Excitation of the Device.
≓ ∳	Get_Firmware_Month	Get_Firmware_Month is a Function that returns a value representing the Month that the Firmware was created.
Ξψ	Get_Firmware_Version	Get_Firmware_Version is a Function that returns a value representing the Firmware Version of the USB Device.
Ξψ	Get_Firmware_Year	Get_Firmware_Year is a Function that returns a value representing the Year that the Firmware was created.
Ξψ	Get_Fullscale_Load	Get_Fullscale_Load is a Function that that is used to to get the Fullscale Load of the USB Device.
=•	Get_Fullscale_Value	Gets the fullscale value stored in the EEPROM of the microcontroller.

≘∳	Get_Gain_Switch	Get_Gain_Switch is a Function that returns a value representing the Gain Switch of the Device.
=•	Get_Hardware_Version	Get_Hardware_Version is a Function that returns a value representing the Hardware Version of the USB Device.
≡ ∳	Get_Internal_Register	Gets the internal register value stored in the EEPROM of the microcontroller.
≡ ∳	Get_Load_of_Loading_Point	Get_Load_of_Loading_Point is a Function that that is used to to get the Load of Loading Point of the USB Device.
=•	Get_Loading_Point	Get_Loading_Point is a Function that that is used to to get the Loading Point of the USB Device.
Ξ φ	Get_Number_of_Active_Channels	Get_Number_of_Active_Channels is a Function that returns a value representing the Number Of Active Channels of the USB Device.
ΞΦ	Get_Number_of_Loading_Points	Get_Number_of_Loading_Points is a Function that that is used to to get the Number of Loading Points stored in the USB Device.
=•	Get_Offset_Load	Get_Offset_Load is a Function that that is used to to get the Offset Load of the USB Device.
εψ	Get_Offset_Value	Gets the offset value stored in the EEPROM of the microcontroller.
=•	Get_Output_Type	Get_Output_Type is a Function that returns a value representing the Sensor Output Type.
Ξψ	Get_Polarity	Get_Polarity is a Function that returns a value representing the Polarity of the Device.

=•	Get_Pulses_Per_Rotation	Get_Pulses_Per_Rotation is a Function that returns a value representing the Pulses Per Rotation of the USB Device.
=•	Get_Rotation_Values	Get_Rotation_Values is a Function that that is used to to get the Angle Value.
=•	Get_RS232_Output_Format	Get_RS232_Output_Format is a Function that returns a value representing the RS-232 output format.
=•	Get_Sensitivity	Get_Sensitivity is a Function that returns a value representing the Sensitivity of the USB Device.
Ξψ	Get_Sensor_Identification_Number	Get_Sensor_Identification_Number is a Function that returns a value representing the Sensor Identification Number of the USB Device.
=•	Get_Sensor_Sensitivity	Get_Sensor_Sensitivity is a Function that returns a value representing the Sensor Sensitivity of the Device.
ΞΦ	Get_Shunt_Resistor	Get_Shunt_Resistor is a Function that returns a value representing the Shunt Resistor of the Device.
=•	Get_Shunt_Value	Get_Shunt_Value is a Function that returns a value representing the Absolute Shunt Value of the USB Device.
=•	Get_Source_IP_Address	Get_Source_IP_Address is a Function that returns a value representing the Source IP Address of the Device.
∉ ∳	Get_Source_MAC_Address	Get_Source_MAC_Address is a Function that returns a value representing the Source MAC Address of the Device.
=•	Get_Source_Port_Number	Get_Source_Port_Number is a Function that returns a value representing the Source Port Number of the Device.

=•	Get_Span_1_Potentiometer	Get_Span_1_Potentiometer is a Function that returns a value representing the Span 1 Potentiometer of the Device.
Ξψ	Get_Span_2_Potentiometer	Get_Span_2_Potentiometer is a Function that returns a value representing the Span 2 Potentiometer of the Device.
Ξψ	Get_TEDS_Error_Detection	Gets the TEDS error detection stored in the EEPROM of the microcontroller.
Ξψ	Get_Type_of_Board	Get_Type_of_Board is a Function that returns a value representing the Type of Board (FUTEK Model Number) of the USB Device.
Ξψ	Get_Type_of_Calibration	Get_Type_of_Calibration is a Function that returns a value representing the Type of Calibration of the USB Device.
Ξψ	Get_Unit_Code	Get_Unit_Code is a Function that returns a value representing the Unit Code of the USB Device.
≡ ∳	Get_Voltage_Output	Get_Voltage_Output is a Function that returns a value representing the Voltage Output of the USB Device.
≓ ∳	Get_Zero_Potentiometer	Get_Zero_Potentiometer is a Function that returns a value representing the Zero Potentiometer of the Device.
≘ ∳	Normal_Data_Request	Gets the latest analog-to-digital converter (ADC) value from the USB device.
=•	Open_Device_Connection	Opens a connection with the USB device using the serial number assigned in the EEPROM of the USB FIFO IC and assigns a value to the DeviceHandle and DeviceStatus. The DeviceHandle will be required for subsequent use with many of the other commands.

Ξψ	Read_Channel_Register	Reads from the microcontroller's channel register.
Ξψ	Read_EEPROM_Register	Reads from the microcontroller's EEPROM register.
=•	Read_Memory_Register	Reads from the microcontroller's memory register.
=•	Read_Page_Register	Reads from the microcontroller's page register.
≡ ∳	Read_TEDS_Register	Reads from the Transducer Electronic Data Sheet (TEDS) register.
=•	Reset_Angle	Warning: The use of this function can affect the factory calibration of the USB device. Resets the angle value stored in the EEPROM of the microcontroller.
ΞΦ	Reset_Board	Resets the microcontroller.
≘ ∳	Restore_Back_Up	Restore_Back_Up is a Function that is used to Restore the Backup in Memory.
=•	Set_Active_Page_Number	Warning: The use of this function can affect the factory calibration of the USB device. Sets the active page number stored in the EEPROM of the microcontroller.
=•	Set_Active_Sound	Warning: The use of this function can affect the factory calibration of the USB device. Sets the active sound stored in the EEPROM of the microcontroller.
=•	Set_ADC_Configuration	Warning: The use of this function can affect the factory calibration of the USB device. Sets the sampling rate of the analog-to-

digital converter (ADC) stored in the EEPROM of the microcontroller.

affect the factory calibration of the USB

		EEPROW OF the fillcrocontroller.
= ◇ Set_ADC_0	Configuration2	Warning: The use of this function can affect the factory calibration of the USB device. Sets the gain and the sampling rate of the analog-to-digital converter (ADC) stored in the EEPROM of the microcontroller.
= ◇ Set_Avera	ge_Setting	Warning: The use of this function can affect the factory calibration of the USB device. Enables or disables the average applied to the analog-to-digital converter (ADC) values.
= ♦ Set_Baud_	Rate	Warning: The use of this function can affect the factory calibration of the USB device. Sets the Baud rate value stored in the EEPROM of the microcontroller.
= ♦ Set_Bridge	e_Resistance	Warning: The use of this function can affect the factory calibration of the USB device. Sets the nominal bridge resistance value stored in the EEPROM of the microcontroller.
= v Set_Calibr	ation_Code	Warning: The use of this function can affect the factory calibration of the USB device. Sets the calibration code stored in the EEPROM of the microcontroller.
= v Set_Calibr	ation_Day	Warning: The use of this function can affect the factory calibration of the USB device. Sets the calibration day stored in the EEPROM of the microcontroller.
= ♦ Set_Calibr	ation_Mode	Warning: The use of this function can

device.

Sets the calibration mode associated with the digital components of the USB device.

Set_Calibration_Month

Warning: The use of this function can affect the factory calibration of the USB device.

Sets the calibration month stored in the EEPROM of the microcontroller.

Set_Calibration_Register

Warning: The use of this function can affect the factory calibration of the USB device.

Sets the calibration registers stored in the EEPROM of the microcontroller including: Resistance, Voltage, Current and Temperature.

Set_Calibration_Year

Warning: The use of this function can affect the factory calibration of the USB device.

Sets the calibration year stored in the EEPROM of the microcontroller.

Set_Channel_Configuration

Warning: The use of this function can affect the factory calibration of the USB device.

Sets the channel configuration associated with the USB device.

Set CrossTalk

Warning: The use of this function can affect the factory calibration of the USB device.

Sets the crosstalk value stored in the EEPROM of the microcontroller.

Set_Decimal_Point

Warning: The use of this function can affect the factory calibration of the USB device.

Sets the decimal point format stored in the EEPROM of the microcontroller.

Set_Destination_IP_Address

Warning: The use of this function can affect the factory calibration of the USB

PM		device. Sets the destination IP address stored in the EEPROM of the microcontroller.
Ξψ	Set_Destination_MAC_Address	Warning: The use of this function can affect the factory calibration of the USB device. Sets the destination MAC address stored in
		the EEPROM of the microcontroller.
=•	Set_Destination_Port_Number	Warning: The use of this function can affect the factory calibration of the USB device. Sets the destination port number stored in
		the EEPROM of the microcontroller.
=•	Set_Digital_Components	Warning: The use of this function can affect the factory calibration of the USB device. Sets the digital components of the USB device.
=•	Set_Direction	Warning: The use of this function can affect the factory calibration of the USB device.
		Sets the direction value stored in the EEPROM of the microcontroller.
≡	Set_Enabled_Channels	Warning: The use of this function can affect the factory calibration of the USB device.
		Sets the enabled channels stored in the EEPROM of the microcontroller.
=•	Set_Load_of_Loading_Point	Warning: The use of this function can affect the factory calibration of the USB device.
		Sets the load value related to the loading point stored in the EEPROM of the microcontroller.
= •	Set_Load_Switch	Warning: The use of this function can

device.

affect the factory calibration of the USB

USB DLL Class Methods

Enables or disables the simulated load applied to the analog-to-digital converter (ADC).

Set_Loading_Point

Warning: The use of this function can affect the factory calibration of the USB device.

Sets the analog-to-digital converter (ADC) value associated with the calibration loading point stored in the EEPROM of the microcontroller.

Set_Number_of_Active_Channels

Warning: The use of this function can affect the factory calibration of the USB device.

Sets the number of active channels stored in the FFPROM of the microcontroller.

Set_Number_of_Loading_Points

Warning: The use of this function can affect the factory calibration of the USB device.

Sets the number of loading point values stored in the EEPROM of the microcontroller.

Set_Pulses_Per_Rotation

Warning: The use of this function can affect the factory calibration of the USB device.

Sets the number of pulses per rotatioin stored in the EEPROM of the microcontroller.

Set_RS232_Output_Format

Warning: The use of this function can affect the factory calibration of the USB device.

Sets the RS-232 output format value stored in the EEPROM of the microcontroller.

Set_Sensitivity

Warning: The use of this function can affect the factory calibration of the USB device.

Sets the nominal sensitivity value stored in the EEPROM of the microcontroller.

€∳	Set_Sensor_Configuration	Warning: The use of this function can affect the factory calibration of the USB device. Sets the sensor configuration stored in the EEPROM of the microcontroller including: Input / Output Type, Nominal Sensitivity and Nominal Bridge Resistance.
Ξ₩	Set_Sensor_Identification_Number	Warning: The use of this function can affect the factory calibration of the USB device. Sets the serial number stored in the EEPROM of the microcontroller.
ΞΦ	Set_Shunt_Value	Warning: The use of this function can affect the factory calibration of the USB device. Sets the shunt value stored in the EEPROM of the microcontroller.
≡ ∳	Set_Source_IP_Address	Warning: The use of this function can affect the factory calibration of the USB device. Sets the source IP address stored in the EEPROM of the microcontroller.
Ξ₩	Set_Source_Port_Number	Warning: The use of this function can affect the factory calibration of the USB device. Sets the source port number stored in the EEPROM of the microcontroller.
=•	Set_TEDS_Error_Detection	Warning: The use of this function can affect the factory calibration of the USB device. Sets the TEDS error detection stored in the EEPROM of the microcontroller.
≡ ∳	Set_Type_of_Calibration	Warning: The use of this function can affect the factory calibration of the USB device. Sets the type of calibration stored in the EEPROM of the microcontroller.

≓ ∳	Set_Unit_Code	Warning: The use of this function can affect the factory calibration of the USB device. Sets the engineering unit code stored in the EEPROM of the microcontroller.
∉∳	Set_Voltage_Output	Warning: The use of this function can affect the factory calibration of the USB device. Sets the voltage output of the USB device.
≓ ♦	Set_Zero_Correction	Warning: The use of this function can affect the factory calibration of the USB device. Sets the new loading point value based on a zero correction for fixturing stored in the EEPROM of the microcontroller.
ΞΦ	Slave_Activity_Inquiry	Verifies the communication data link with the USB device.
≡ •	Version_of_Board	Gets the version of board from the USB device.
≡∳	Write_Channel_Register	Writes to the microcontroller's channel register.
≡ •	Write_EEPROM_Register	Writes to the microcontroller's EEPROM register.
=•	Write_Memory_Register	Writes to the microcontroller's memory register.
ΞΦ	Write_TEDS_Register	Writes to the Transducer Electronic Data Sheet (TEDS) register.
Ton		

Top

See Also

Reference

USB_DLL Class FUTEK_USB_DLL Namespace © 2024 FUTEK Advanced Sensor Technology, Inc. All rights reserved.

Send Feedback