

# GANZ EINFACH BROWSERN STATT PROGRAMMIEREN!

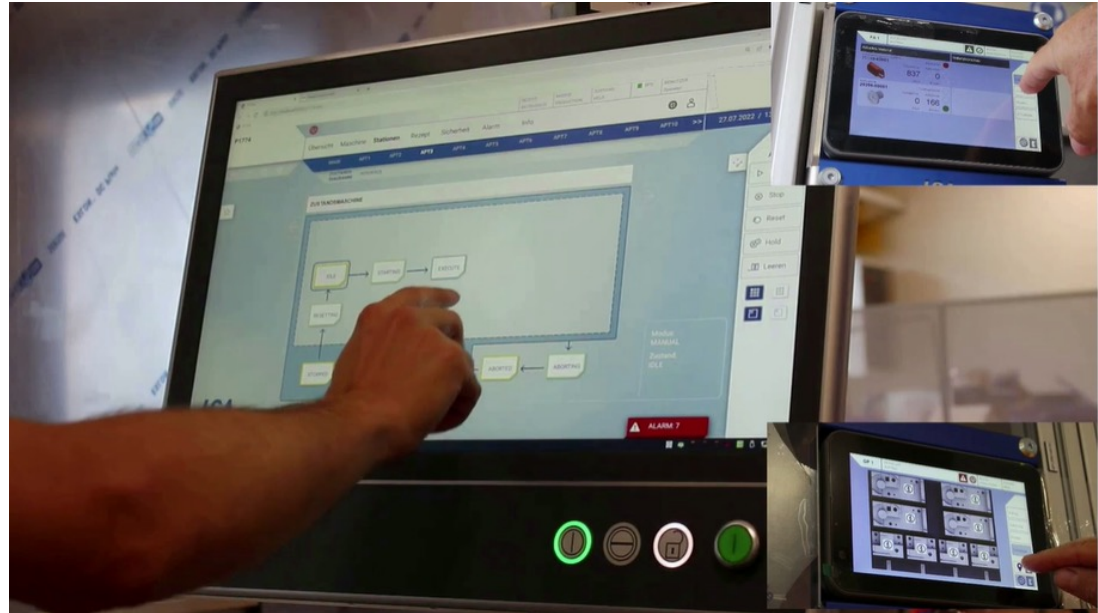
SpiderControl

## Welcome to the presentation

# SpiderControl PC HMI Editor Feature Overview

# Single Page HTML5 Application with Fast Page Switch

- **Creates Pure HTML5 Single Page Applications ('SPA')**
- **Runs in Any HTML5 Compatible Browser: PC, Mobile, Web-Panel**
- **Always Compatible with MicroBrowser Clients**
- **ZIPed storage and Intelligent Caching in the Browser**
- **Fastest Possible Page Switch**
- **Multi Layer**
- **Vector Based**



# Text Object Features

- Multi Language with UTF8 Support
- Font Styles can be linked to CSS File
- Fixed Decimal Point
- Blinking
- Change Color
- Multi Line
- Autoscroll
- Editable on Condition/User Level
- Min/Max Control
- Specific Actions on Enter/Leave
- Metric/Imperial Switch

StaticText

<b>Color</b>		<b>Time&amp;Date</b>	
Change color	3.04690	Local Time	15:34:19
Change color with 2nd Var	Color 1 <input type="text" value="3.04690"/>	Local Date	31.03.2026
<b>Else</b>		<b>Blinking</b>	
Language Dependant Text	LanguageTag	Blinking Text Show_Hide	
Float with limited decimal points	3.05	Blinking Text OutlineColor	3.04690
Autoscroll for long texts	scroll -- Autoscroll -- w	Blinking Text InteriorColor	3.04690

EditBox

EditBox with DropShadow	<input type="text" value="20"/>	Additional Action on Enter/Leave	<input type="text" value="0"/>
MouseOver Animation Outline	<input type="text" value="20"/>		
MouseOver Animation Drop Shadow	<input type="text" value="20"/>	User Level Dependant	<input type="text" value="0"/>
Float with limited decimal points	<input type="text" value="0.00"/>	Show and Edit	<input type="text" value=""/>
Float with local min/max	<input type="text" value="0"/>	User level:	2

OK CANCEL

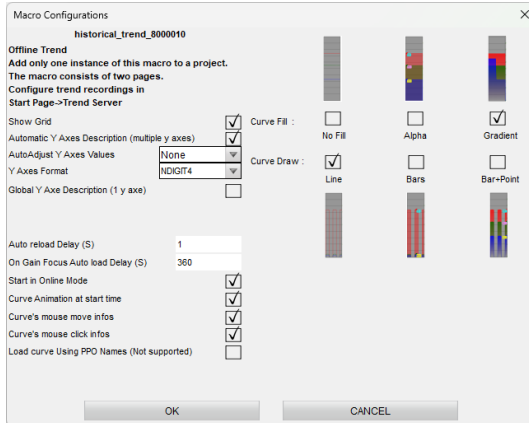
# UI Effects

- Vector Graphics (SVG) with extendable Libraries
- Drop Shadow Effect with CSS
- Definable Hover Effects
- Tool Tips
- Rotate Images
- Change Colors on Condition
- Change Images on Condition
- Enable/Disable States
- Draggable Objects
- Swipe Gestures

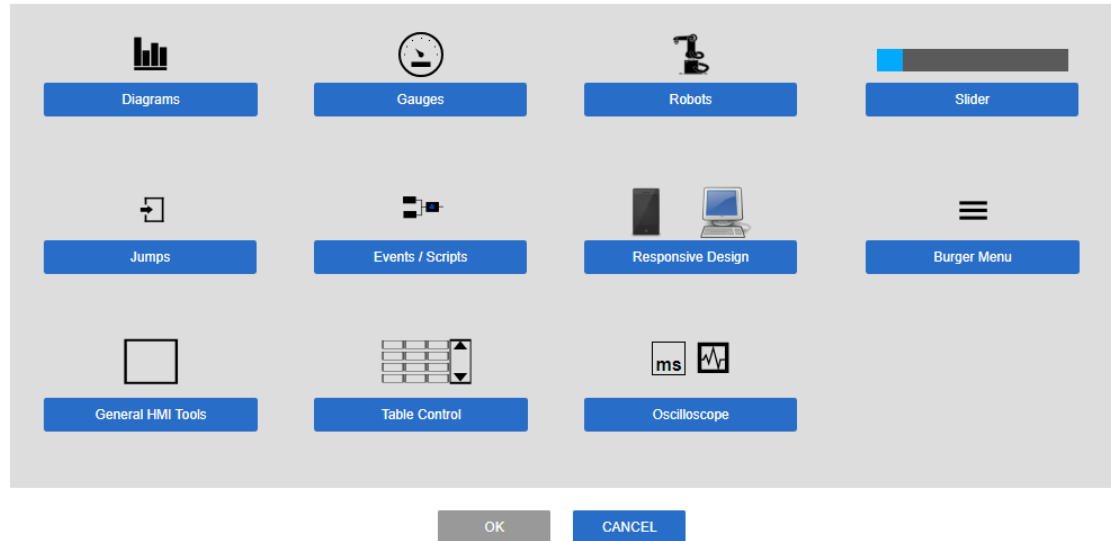


# Macro Libraries

- Existing Macro Libraries
- User can add own macros,
- Design own dialogues
- Interactive selector

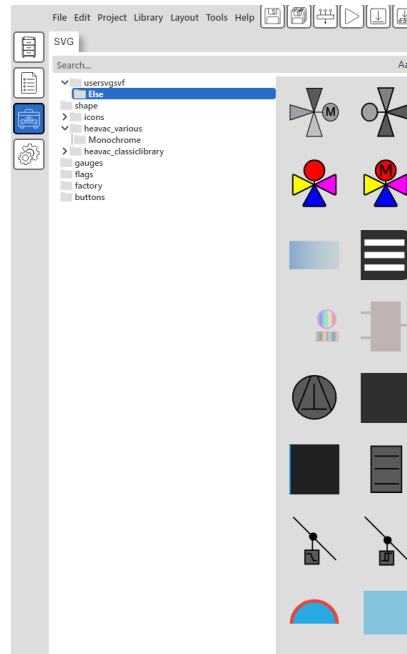
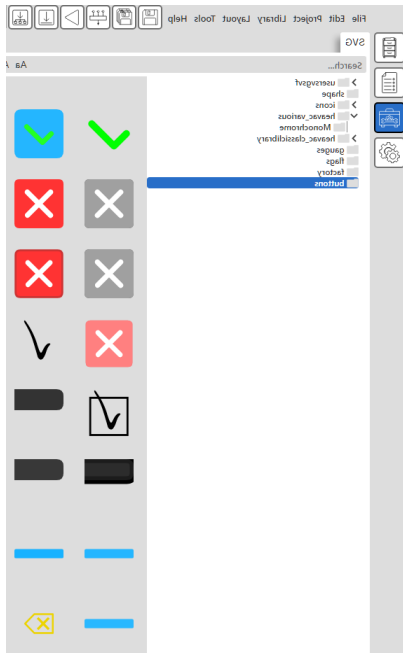


## Macro Libraries



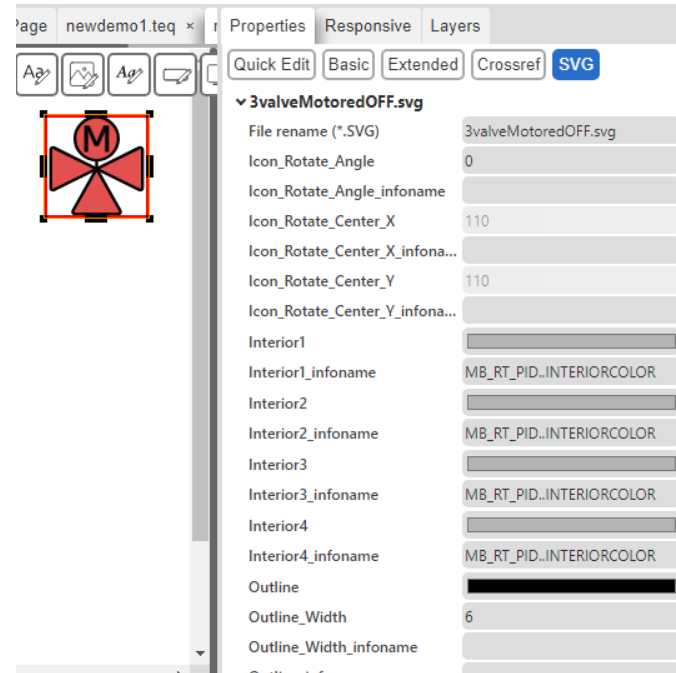
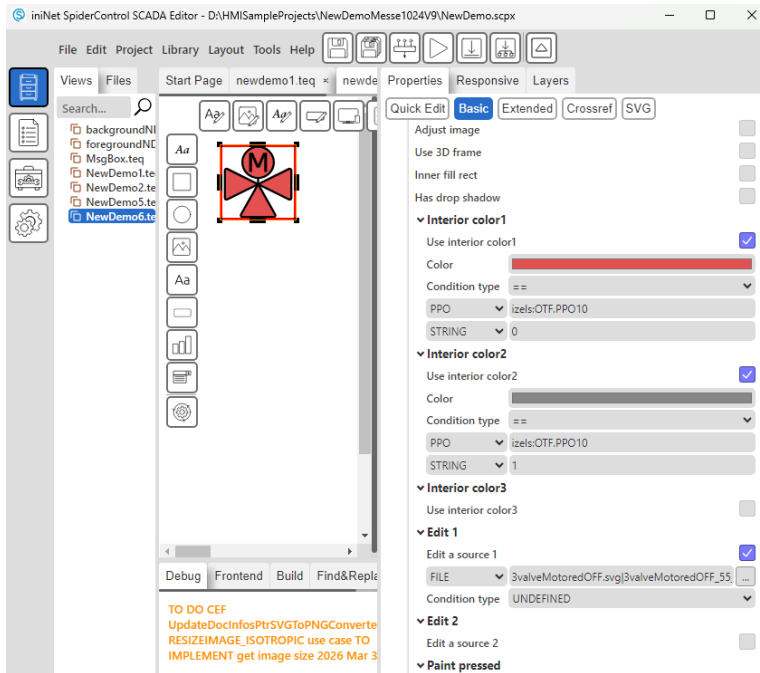
# Vector Graphics (SVG) with extendable Libraries

## - Add your own SVG Folders



# Modify SVG Properties From Within Editor

- Assign dynamic Color... and inject in SVG during runtime: Only 1 SVG library object for all sizes, colors and rotations



# Object Properties Management

- Default Property View
- Advanced and extensible View
- Quick Edit Mode: Tag only important properties
- Specific Macro Dialogues
- Layer Property for easier Edit
- Cross Reference with Find Replace
- Project Find/Replace
- Tile Group Property for Responsive Designs

The image displays three screenshots of the SpiderControl software interface, illustrating different views for managing object properties.

**Left Screenshot: Default Property View**  
This view shows the 'Properties' panel for a 'Button - Properties' object. It includes a 'General' section with fields for X, Y, W, H, Font, Has interior, Interior color, Has outline, Outline color, Outline width, Outline style, and Layer ID. Below this is the 'Repaints' section, which lists 'Interior color1', 'Interior color2', and 'Interior color3', each with a 'Use interior color' checkbox and a 'Condition type' dropdown. An 'Edit 1' section is also visible at the bottom.

**Middle Screenshot: Advanced and Extensible View**  
This view shows the 'Properties' panel for a 'Button - Properties' object, focusing on the 'Repaints' section. It displays a list of repainting actions, such as '0\_PAINT\_SOURCE\_3valveMotoredOff.svg|3valve...', '1\_TEXT\_HEIGHT\_CENTERED', '2\_TEXT\_WIDTH\_CENTERED', '3\_USE\_INTERIOR\_COLOR\_#e25050', and '4\_USE\_INTERIOR\_COLOR\_#888686'. Each action has a 'Type' dropdown, a 'Condition type' dropdown, and a 'STRING' field.

**Right Screenshot: Quick Edit Mode**  
This view shows the 'Properties' panel for a '3valveMotoredOff.svg' object in 'Quick Edit' mode. It features a table with columns for 'Type' and 'Name'. The table lists various properties like 'FILE', 'PPO', 'STRING', and 'STRING'. To the right of the table, there are input fields for values like '3valveMotoredOff.svg', '0', '110', and '110'. Below the table, there are sections for 'Interior1' through 'Interior4', each with a 'Color' dropdown and a 'Condition type' dropdown.

# Pre-Defined Styles For Standard Objects

The screenshot displays the iniNet SpiderControl SCADA Editor interface. The main window is titled "Style 1/2" and shows a "Chosen Style" of "editor9\_2025". Below this, there are several style preview cards for buttons, including "Modern light mode", "Modern dark mode", "Old Fashioned", "Flat", "Simple Gradients", "Metro Navigation", "Metro Command", and "Metro Tools". The "Modern light mode" card is currently selected. The interface also includes a search bar on the left, a menu bar at the top, and a properties panel on the right. The bottom status bar shows a debug console with messages from 2026 Mar 31 15:48:37.

iniNet SpiderControl SCADA Editor - D:\HMISampleProjects\NewDemoMesse1024\9\NewDemo.scp

File Edit Project Library Layout Tools Help

Views Files Start Page newdemo1.teq x newdemo6.teq x

Search...

- backgroundND.teq
- foregroundND.teq
- MsgBox.teq
- NewDemo1.teq
- NewDemo2.teq
- NewDemo5.teq
- NewDemo6.teq

Properties Responsive Layers

File - properties

- Project name: NewDemo
- Project path: D:\HMISampleProjects\N...

Chosen Style: editor9\_2025  
Style setting will take effect on the next inserted painter (e.g.: Button Painter)

Item1  
Button

Modern light mode

zels OTF IndexPPO  
Button

Modern dark mode

Button  
VAR\_NAME

Old Fashioned

Mouse DOWN  
IndexCONTAINER

Flat

Button Label  
IndexPPO

Simple Gradients

Button Label

Metro Navigation

Toggle Variable

Metro Command

Metro Tools

Debug Frontend Build Find&Replace

get image size 2026 Mar 31 15:48:37

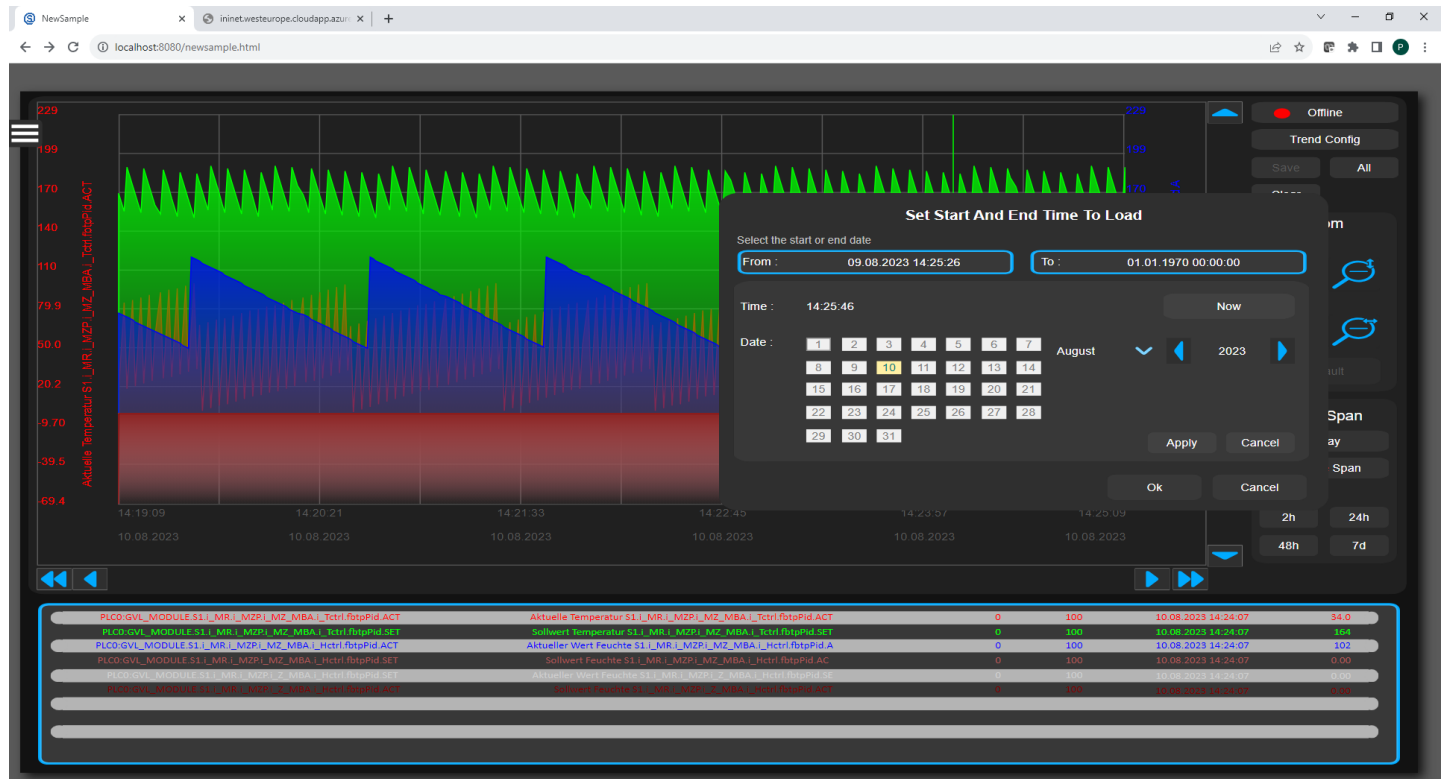
TO DO CEF UpdateDocInfosPtrSVGToPNGConvertedNameslist RESIZEIMAGE\_ISOTROPIC use case TO IMPLEMENT

get image size 2026 Mar 31 15:48:37

WARNING in scada config (zelscfg.csv) file generating: the param [ns=4s=jappo[WAGO 750-8100 PFC100 CS 2ETH ECO.Application.GlobalVars.] contains the special separator char:] so pre-postfixes it with " chars. 2026 Mar 31 15:48:37

# Historical and Online Trends

- Online and Offline
- Store in Server
- Csv Export
- Scroll and Swipe
- Load Span
- Ruler
- Timestamps
- Flexible Axis
- Modify Features
- Modify Colors



# Historical and Online Trends

**Trending configuration**

Trends to display

Nbr	Trends	Min	Max	Scalar	Del
1	Aktuelle Temperatur S1.I_MR.I_MZP.I_MZ_MBA.I	0	100	Scalar&AKS	✖
2	Sollwert Temperatur S1.I_MR.I_MZP.I_MZ_MBA.I	0	100	None	✖
3	Aktueller Wert Feuchte S1.I_MR.I_MZP.I_MZ_MB	0	100	Scalar&AKS	✖
4	Sollwert Feuchte S1.I_MR.I_MZP.I_MZ_MBA.L_Hc	0	100	None	✖
5	Aktueller Wert Feuchte S1.I_MR.I_MZP.I_Z_MBA.	0	100	None	✖
6	Sollwert Feuchte S1.I_MR.I_MZP.I_Z_MBA.L_Hc	0	100	None	✖
7					
8					
9					
10					

Profile selection

Active profile: Luwa1

Define a name for the profile

- 1 Luwa1
- 2 new
- 3 zruzruzt
- 4 zrjrzj
- 5 prola

Load Save

Add the trends to display

	Trends	
1	Temperatur Vorlauf 1 Sollwert	+
2	Temperatur Vorlauf 2 Sollwert	+
3	Temperatur Vorlauf 3 Sollwert	+
4	Temperatur Vorlauf 1 Istwert	+
5	Temperatur Vorlauf 2 Istwert	+
6	Temperatur Vorlauf 3 Istwert	+
7		
8		
9		
10		

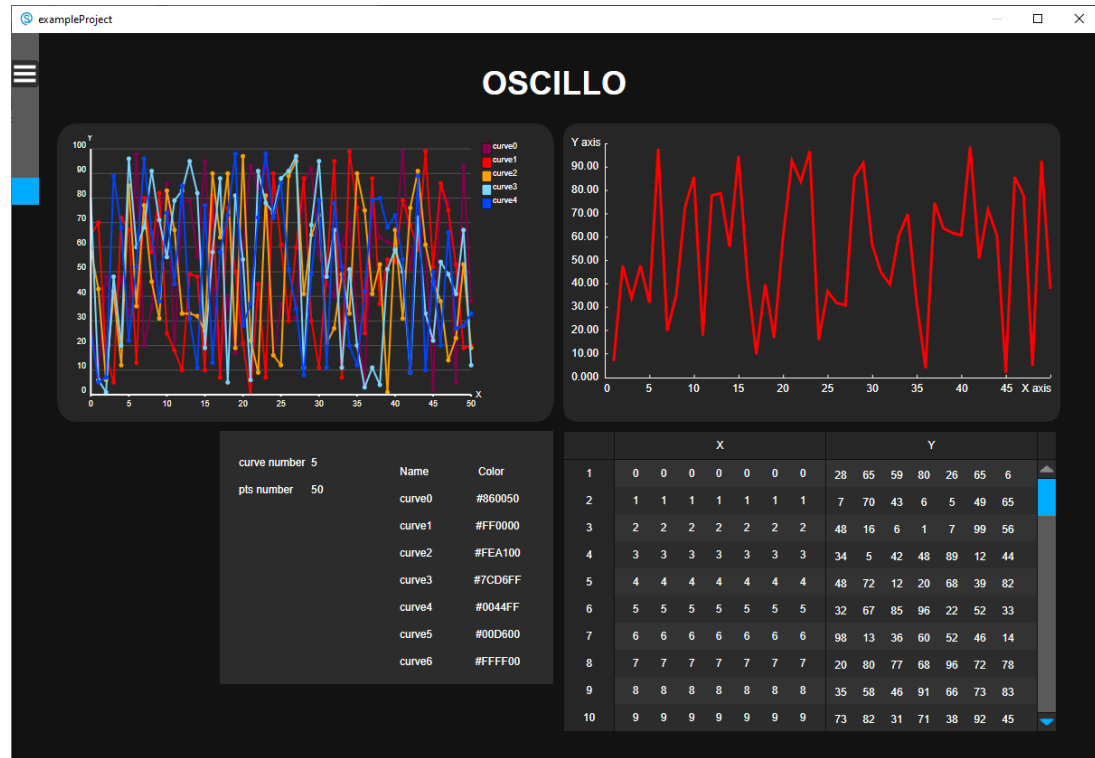
Filter

	Filter
1	0
2	
3	
4	
5	
6	
7	
8	
9	
10	

- Define User Sets
- Load and Store
- Select from all
- Filter curves

# Oscilloscope

- Read Arrays of values from the server
- Full refresh with >100ms of complete curve
- Full X/Y coordinates for every value
- Array size is user defined



# Alarms

- Translated Texts
- Timestamps
- Time On / Off
- Acknowledge
- Filters
- Active / History
- Csv export
- Stored in server

STATIC TEXT

ID	Alarm Text	On	Off	ACK
3	ALRLIST0_3	10.08.2023 15:43:45	--	NAK
3	ALRLIST0_3	10.08.2023 15:42:41	10.08.2023 15:43:00	NAK
3	ALRLIST0_3	10.08.2023 15:41:38	10.08.2023 15:41:57	NAK
3	ALRLIST0_3	10.08.2023 15:40:33	10.08.2023 15:40:52	NAK
3	ALRLIST0_3	10.08.2023 15:39:30	10.08.2023 15:39:49	NAK
3	ALRLIST0_3	10.08.2023 15:38:25	10.08.2023 15:38:44	NAK
3	ALRLIST0_3	10.08.2023 15:37:22	10.08.2023 15:37:40	NAK
3	ALRLIST0_3	10.08.2023 15:36:17	10.08.2023 15:36:36	NAK
3	ALRLIST0_3	10.08.2023 15:35:14	10.08.2023 15:35:32	NAK
3	ALRLIST0_3	10.08.2023 15:34:10	10.08.2023 15:34:29	NAK
3	ALRLIST0_3	10.08.2023 15:33:06	10.08.2023 15:33:24	NAK
3	ALRLIST0_3	10.08.2023 15:32:02	10.08.2023 15:32:21	NAK
3	ALRLIST0_3	10.08.2023 15:30:58	10.08.2023 15:31:16	NAK
3	ALRLIST0_3	10.08.2023 15:29:54	10.08.2023 15:30:13	NAK
3	ALRLIST0_3	10.08.2023 15:28:50	10.08.2023 15:29:09	NAK
3	ALRLIST0_3	10.08.2023 15:27:46	10.08.2023 15:28:05	NAK
3	ALRLIST0_3	10.08.2023 15:26:41	10.08.2023 15:27:01	NAK
3	ALRLIST0_3	10.08.2023 15:25:38	10.08.2023 15:25:57	NAK
3	ALRLIST0_3	10.08.2023 15:24:34	10.08.2023 15:24:53	NAK
3	ALRLIST0_3	10.08.2023 15:23:30	10.08.2023 15:23:49	NAK
3	ALRLIST0_3	10.08.2023 15:22:26	10.08.2023 15:22:45	NAK
3	ALRLIST0_3	10.08.2023 15:21:22	10.08.2023 15:21:41	NAK
3	ALRLIST0_3	10.08.2023 15:20:18	10.08.2023 15:20:37	NAK
3	ALRLIST0_3	10.08.2023 15:19:14	10.08.2023 15:19:33	NAK
3	ALRLIST0_3	10.08.2023 15:18:10	10.08.2023 15:18:29	NAK
3	ALRLIST0_3	10.08.2023 15:17:06	10.08.2023 15:17:25	NAK
3	ALRLIST0_3	10.08.2023 15:16:02	10.08.2023 15:16:21	NAK
3	ALRLIST0_3	10.08.2023 15:14:58	10.08.2023 15:15:17	NAK
3	ALRLIST0_3	10.08.2023 15:13:54	10.08.2023 15:14:13	NAK
3	ALRLIST0_3	10.08.2023 15:12:51	10.08.2023 15:13:10	NAK
3	ALRLIST0_3	10.08.2023 15:11:46	10.08.2023 15:12:05	NAK

Acknowledge By:    Sort by time on:

Alarm state filter:



# Gauges

### Gauges

A grid of 15 gauge widgets arranged in 3 rows and 5 columns. Each widget displays a percentage value: 71.0% or 72.0%. The gauges use various color schemes: blue, orange, green, red, and yellow. The values are displayed in the center of the gauge. Below the grid are two buttons: 'OK' and 'CANCEL'.

### Gauges

This name can be [ ]

**Simple Gauge**

The scale of this gauge is adapted automatically. Many parameters can be modified.

**Simple Gauge w/ Face Plate**

The scale of this gauge is adapted automatically. Parameters are: PPO Variable, Min, Max.

**Modern Simplified**

The circular area is transparent. Parameters are: PPO Variable, Min, Max, Color.

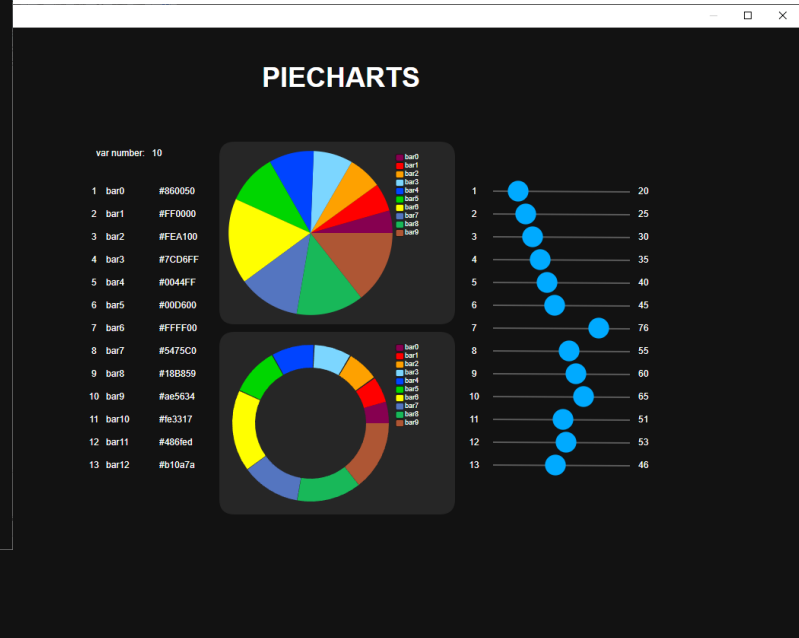
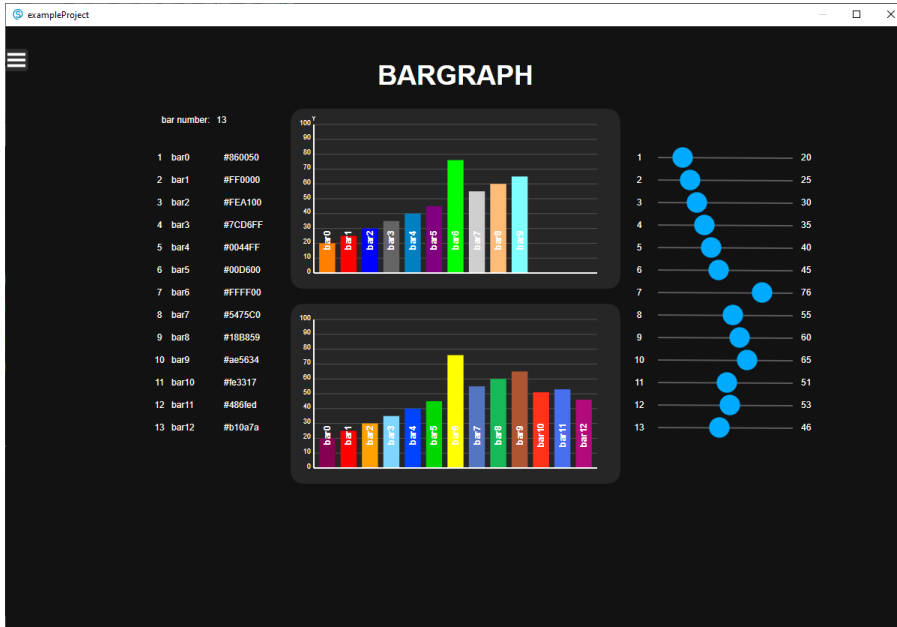
**Simple Gauge w/ Face Plate**

The scale of this gauge is adapted automatically. Parameters are: PPO Variable, Min, Max.

OK CANCEL

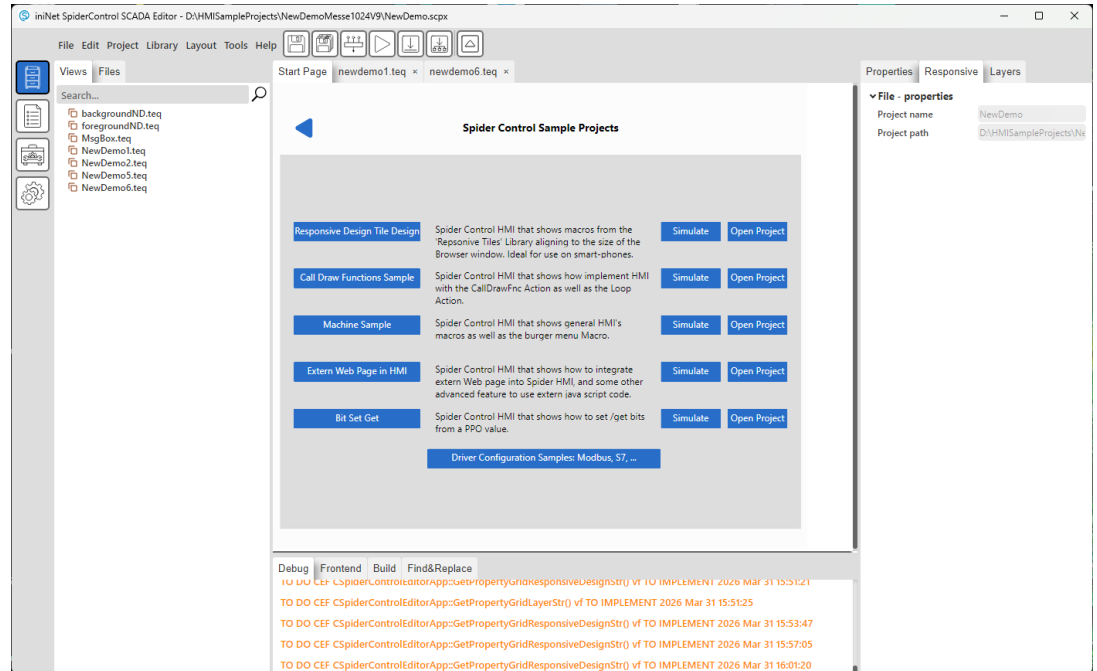
# Pie-Charts, Bar-Graph Arrays

- Any number of Values
- Change during runtime



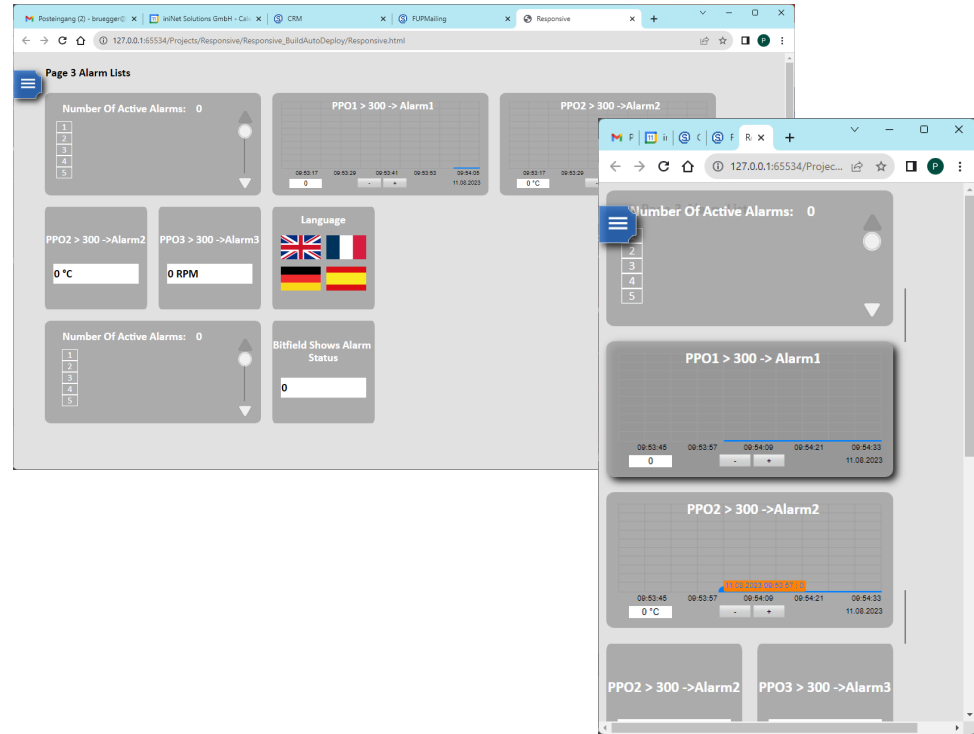
# Integrated Sample Projects

- Sample Projects for Various Applications
- Driver Configuration Sample



# Responsive Design, Fluid Design, Aspect Ratio

- **Responsive Design Supported by User Definable Tile Assignment**
- **Landing Page can distinguish Display Size and Aspect Ratio and Pre-Select desired HMI family**
- **Fluid Design Adapts to given Client Window Size**



# Users, Passwords and User Groups

- **Users and Passwords can be both defined in the Editor as well as online on the SCADA**
- **User Level can be assigned to any User**
- **User can change his password within the HMI application**
- **Token mechanisms supported (only one client can write)**
- **SCADA server can be fully protected by BA**
- **Alternative: Only simple password which are defined in HMI project**

Start Page newdemo1.teq × newdemo6.teq ×

Server Users & Groups configurations

Update Server On Deploy

Basic Authentication

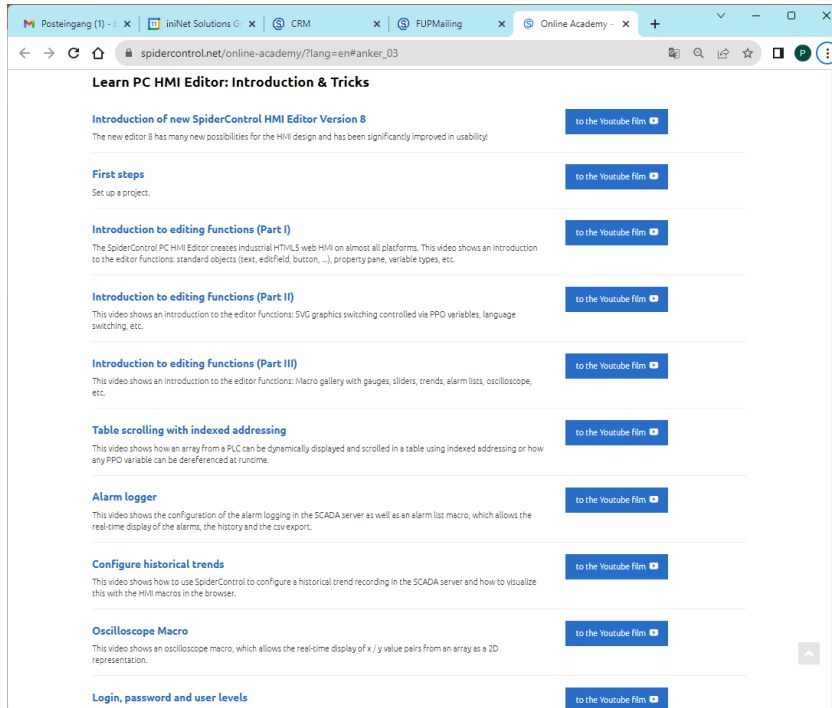
Configure User Names and Levels

	User Name	Password	Level	
1	user1	*****	1	
2	user2	*****	2	

Add user

Configure Admin Password  Change Password

# Online Academy: Video Tutorials To Explain All Aspects



**Learn PC HMI Editor: Introduction & Tricks**

**Introduction of new SpiderControl HMI Editor Version 8**  
The new editor 8 has many new possibilities for the HMI design and has been significantly improved in usability. [to the Youtube Film](#)

**First steps**  
Set up a project. [to the Youtube Film](#)

**Introduction to editing functions (Part I)**  
The SpiderControl PC HMI Editor creates industrial HTML5 web HMI on almost all platforms. This video shows an introduction to the editor functions: standard objects (text, editfield, button, ...), property pane, variable types, etc. [to the Youtube Film](#)

**Introduction to editing functions (Part II)**  
This video shows an introduction to the editor functions: SVG graphics switching controlled via PPO variables, language switching, etc. [to the Youtube Film](#)

**Introduction to editing functions (Part III)**  
This video shows an introduction to the editor functions: Macro gallery with gauges, sliders, trends, alarm lists, oscilloscope, etc. [to the Youtube Film](#)

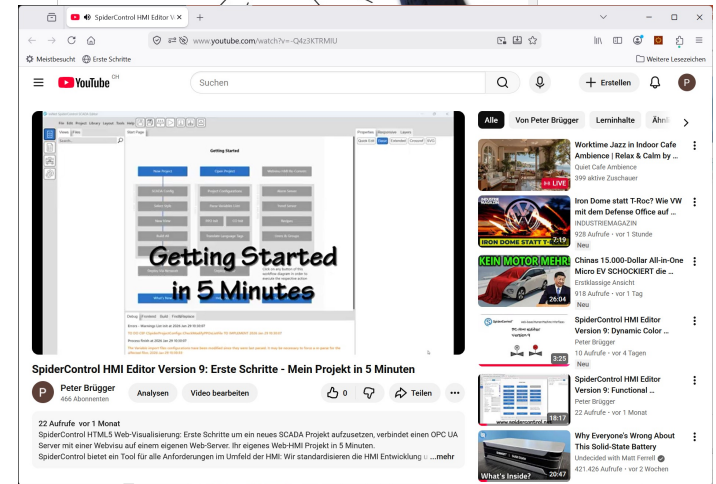
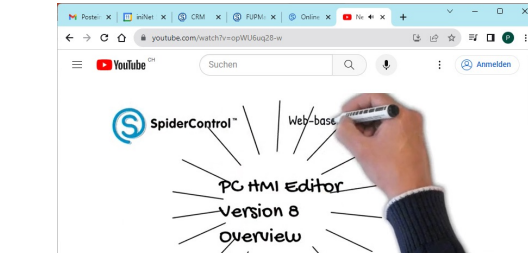
**Table scrolling with indexed addressing**  
This video shows how an array from a PLC can be dynamically displayed and scrolled in a table using indexed addressing or how any PPO variable can be dereferenced at runtime. [to the Youtube Film](#)

**Alarm logger**  
This video shows the configuration of the alarm logging in the SCADA server as well as an alarm list macro, which allows the real-time display of the alarms, the history and the csv-export. [to the Youtube Film](#)

**Configure historical trends**  
This video shows how to use SpiderControl to configure a historical trend recording in the SCADA server and how to visualize this with the HMI macros in the browser. [to the Youtube Film](#)

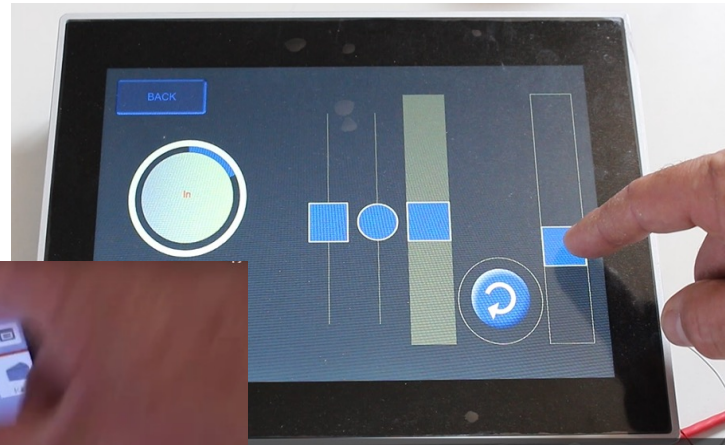
**Oscilloscope Macro**  
This video shows an oscilloscope macro, which allows the real-time display of x / y value pairs from an array as a 2D representation. [to the Youtube Film](#)

**Login, password and user levels** [to the Youtube Film](#)



The screenshot shows a YouTube video player. The video title is "Getting Started in 5 Minutes". The video thumbnail shows a hand-drawn diagram similar to the one in the previous image, with the text "Getting Started in 5 Minutes" overlaid. The video is by Peter Brügger, who has 456 subscribers. The video description reads: "SpiderControl HMI Editor Version 9: Erste Schritte - Mein Projekt in 5 Minuten". The video has 22 views and was uploaded 1 month ago. The video player interface includes a search bar, a play button, and a list of recommended videos on the right side.

# Swipe Gestures, Make Any Object Draggable



# Sub-Windows

- External HTML Sources integrated in HMI: Videos, Maps, Tools,...

The screenshot shows the SpiderControl HMI software interface. At the top, there is a header with 'Station2.teq', 'User Level: 0', a status indicator (5 yellow circles), and a language selector (UK flag). The main area displays a logic diagram with two parallel paths. The top path starts with an 'IN' button, followed by a 'Save' button, a 'P' (Process) block, and a 'SourceFile' block. The bottom path starts with an 'IN' button, followed by a 'Load' button, a 'P' block, and a 'Load (Recipe)' block. Both paths lead to 'OUT' buttons. A central panel shows 'These sample variables are used in the recipe' with a table:

Variable	Type
izels OTF var1	g
izels OTF var2	g
PLC1 izels OTF var1	
PLC1 izels OTF var2	
R09	

Below the table are 'Watch master.csv' and 'Watch myRecipe.csv' buttons. A sidebar on the right contains a menu with categories like Logic, In-Outputs, Word Op., Array Index, String Op., View, Local Data Management, File Copy, Logging, Variable Name Spaces, Node Ops, REST, MQTT, E-Mail, DB, Comm, DataBase, External Logic, Process CLI, Scripts, and Customized.



# Scripting

- Repaints and Actions can also be edited in integrated ASCII Editor
- Full Copy/Paste
- Modify Common Actions for a Selection of Objects
- Loops

```
iniNet SpiderControl SCADA Editor - D:\HMISampleProjects\NewDemoMesse1024V9\NewDemo.scpx
1 //SCRIPT FILE GENERATED FROM iniNet SpiderControl SCADA Editor on Tue Mar 31 16:09:26 2026
2 RepaintsList {
3
4 //Repaint_1
5 PAINT_SOURCE
6 {
7     Source [FILE '3valveMotoredOFF.svg|3valveMotoredOFF_55_54.png']
8 }
9
10 //Repaint_2
11 TEXT_HEIGHT_CENTERED
12 {
13 }
14
15 //Repaint_3
16 TEXT_WIDTH_CENTERED
17 {
18 }
19
20 //Repaint_4
21 IF( [PPO 'izels:0TF.PP010'] == [STRING '0'])
22 {
23     USE_INTERIOR_COLOR
24     {
25         Source [STRING '#e25050']
26     }
27 }
28
29 //Repaint_5
30 IF( [PPO 'izels:0TF.PP010'] == [STRING '1'])
31 {
32     USE_INTERIOR_COLOR
33     {
34         Source [STRING '#888686']
35     }
36 }
37
38 //Repaint_6
39 END_PLCREPAINTS_LIST
40 {
41 }
42 }
43
44 ActionsList {
45
46 //Action_1
47 END_PLCACTIONS_LIST ON( NO_EVENT)
48 {
49 }
50 }
51
```

# Program Your Own Objects: Script To Direct Write Graphic API

**SetPixelAlpha**  
**DrawLineAlpha**  
**DrawRectAlpha**  
**FillRectAlpha**  
**DrawRoundRectAlpha**  
**FillRoundRectAlpha**  
**EllipseWithAlpha**  
**DrawTextWithAngle**  
**DrawArc**

The image shows two windows from the iniNet SpiderControl SCADA Editor. The left window displays a script for a 'Painter' object, and the right window shows the 'CallDrawFunction' dialog with a preview and configuration options.

```
1 //SCRIPT FILE GENERATED FROM iniNet SpiderControl SCADA Editor
2 RepaintsList {
3
4 //Repaint_1
5 END_PLCREPAINTS_LIST
6 {
7
8 }
9
10 ActionsList {
11
12 //Action_1
13 END_PLCACTIONS_LIST ON( NO_EVENT)
14 {
15
16
17 //Action_2
18 SOURCE_TO_DEST ON( REPAINT_EVENT)
19 {
20   Source [CONTAINER 'MB_timestamp_ms']
21   Destination [CONTAINER 'timestamp_old']
22 }
23
24 //Action_3
25 CALL_DRAW_FUNCTION ON( REPAINT_EVENT)
26 {
27   Source [STRINGS 'Draw_Rect']
28   Info_List
29   {
30     [CONTAINER 'rectX']
31     [CONTAINER 'rectY']
32     [CONTAINER 'rectW']
33     [CONTAINER 'rectH']
34     [CONTAINER 'rectF']
35     [CONTAINER 'rgbFill']
36     [CONTAINER 'rectA']
37     [CONTAINER 'rgbOutline']
38     [CONTAINER 'rectAO']
39     [CONTAINER 'rectOM']
40     [CONTAINER 'lineStyle']
41     [CONTAINER 'rotation']
42   }
43 }
44
45 //Action_4
46 SOURCE_TO_DEST ON( REPAINT_EVENT)
47 {
48   Source [CONTAINER 'MB_timestamp_ms']
49   Destination [CONTAINER 'timestamp_new']
50 }
51
52 }
```

The 'CallDrawFunction' dialog shows a preview of a cyan square with a magenta outline on a black background. The configuration panel includes the following settings:

Property	Value
X	36.956
Y	10
Width	35.507
Height	26.811
Corner	15.217
Rotation	114.78
Fill	74,255,255
Red	74
Green	255
Blue	255
Alpha	255
Outline	255,65,255
LineStyle	0
Red	255
Green	65
Blue	255
Alpha	255
O.Width	4