

## Demo Project for Meter in Anti-clockwise

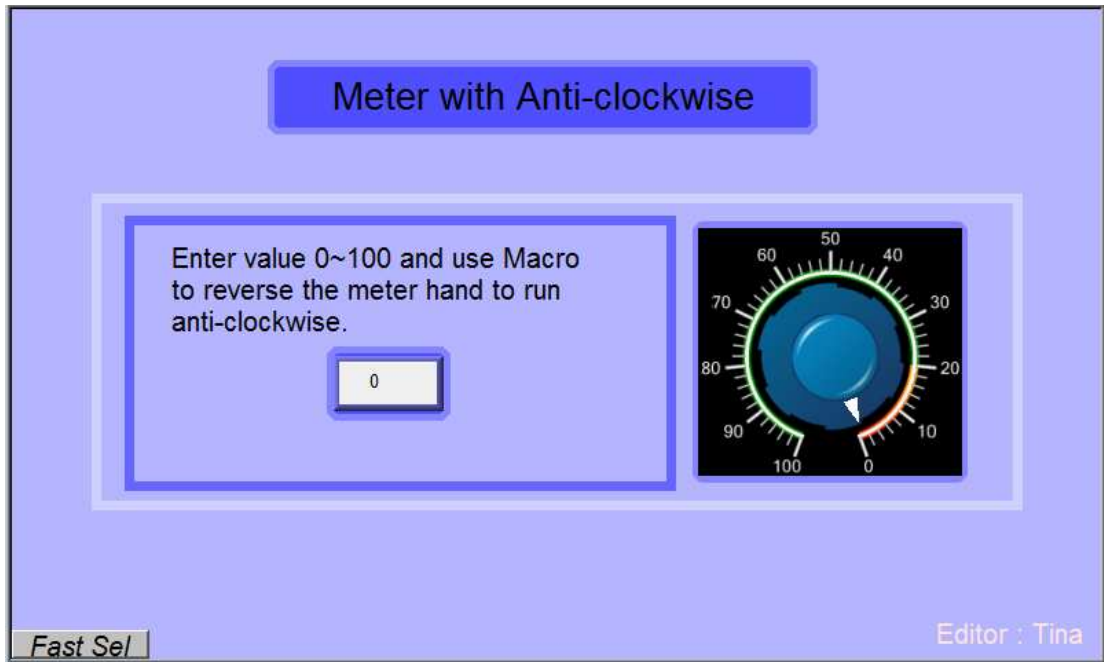
## Table of Contents

1. Overview and Operation
2. Setting up the Screen
3. Addresses

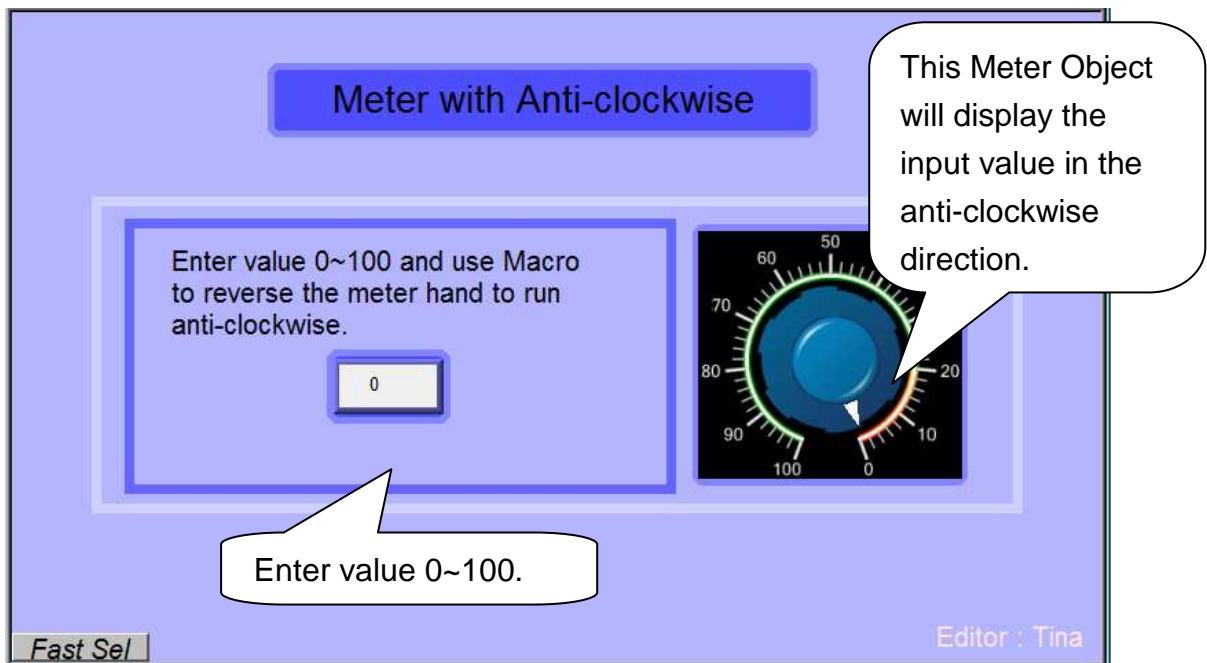
## 1. Overview and Operation

### [Overview]

This demo project introduces how to reverse the meter to run anti-clockwise instead of clockwise via Macro.



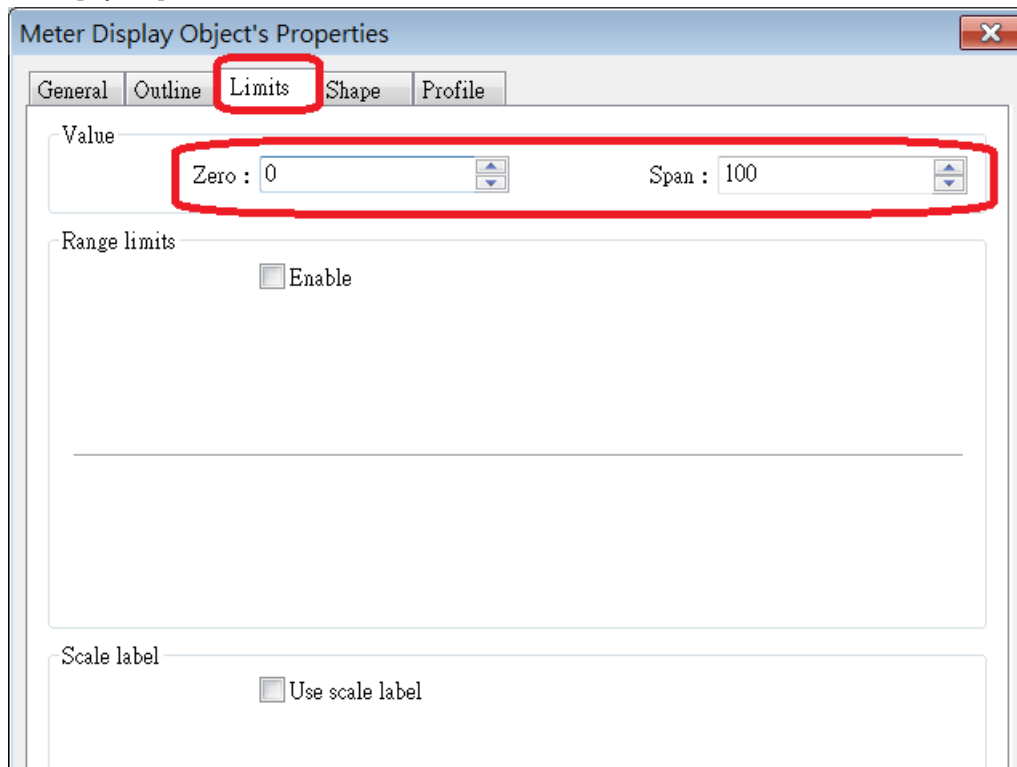
### [Operation]



## 2. Setting up the screen

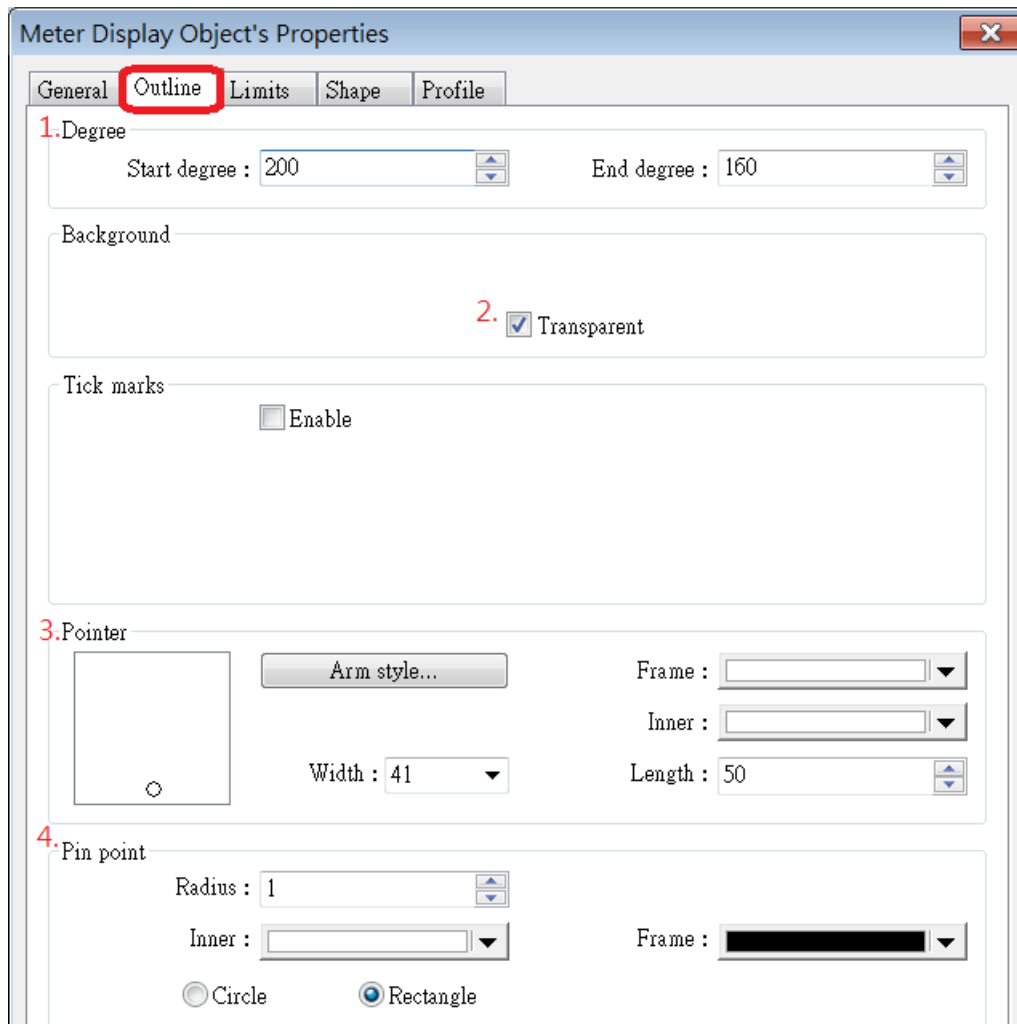
(1) Create a Meter Display Object.

Step1. After creating a Meter Display Object, in [Limits] tab, set [Zero] to “0” and [Span] to “100”.



Step2. Go to [Outline] tab and follow the settings 1~4.

1. Set [Degree] / [Start degree] to “200”, [End degree] to “160”.
2. Select [Background] / [Transparent].
3. Set [Pointer] / [Width] to “41”, [Length] to “50”.
4. Set [Pin point] / [Radius] to “1”, and select [Rectangle].



**Meter Display Object's Properties**

General **Outline** Limits Shape Profile

1. Degree  
Start degree : 200 End degree : 160

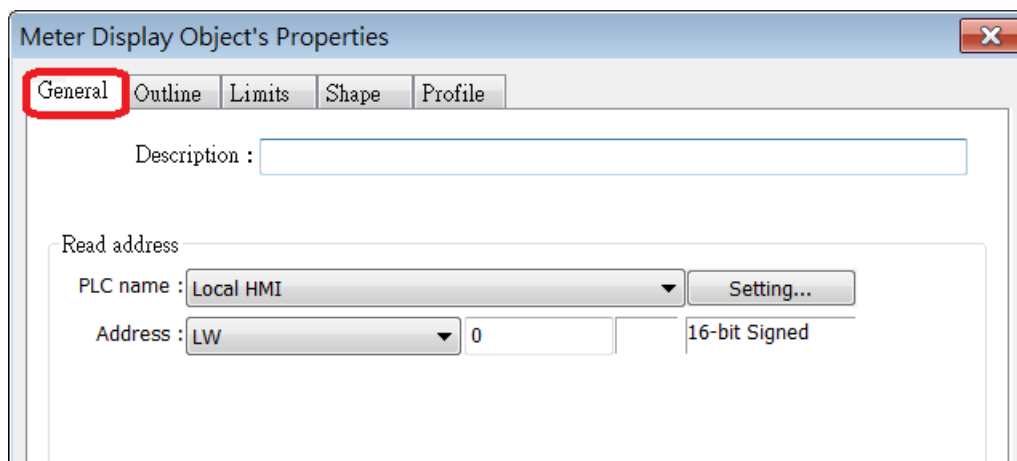
Background  
2. ☒ Transparent

Tick marks  
☐ Enable

3. Pointer  
Arm style... Frame : Inner : Width : 41 Length : 50

4. Pin point  
Radius : 1 Inner : Frame :  
☐ Circle ☒ Rectangle

Step3. Go to [General] tab and set [Read address] to LW-0.



**Meter Display Object's Properties**

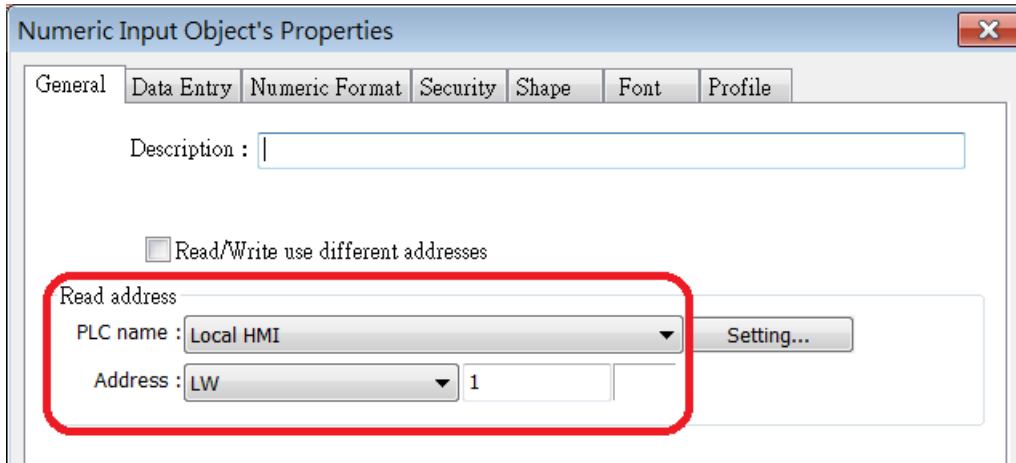
**General** Outline Limits Shape Profile

Description :

Read address  
PLC name : Local HMI Setting...  
Address : LW 0 16-bit Signed

(2) Create a Numeric Input Object.

Set [Read address] to LW-1. Users can enter value in LW-1 to control the Meter Object.



Numeric Input Object's Properties

General Data Entry Numeric Format Security Shape Font Profile

Description :

☐ Read/Write use different addresses

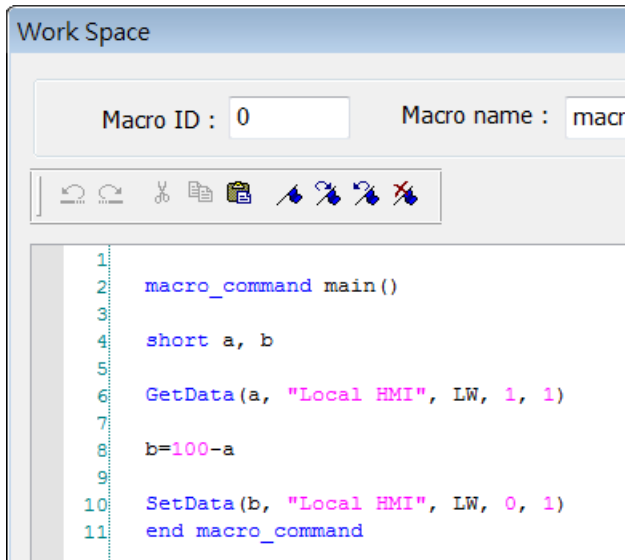
Read address

PLC name : Local HMI

Address : LW 1

Setting...

### (3) Edit Macro.



Work Space

Macro ID : 0 Macro name : macro\_0

1 macro\_command main()  
 2  
 3 short a, b  
 4  
 5  
 6 GetData(a, "Local HMI", LW, 1, 1)  
 7  
 8 b=100-a  
 9  
 10 SetData(b, "Local HMI", LW, 0, 1)  
 11 end macro\_command

By reading the value entered in the Numeric Input Object LW-1, and calculate with the equation  $b=100-a$ , the value b gained will be written to LW-0 which Meter Object reads then runs in anti-clockwise direction.

### (4) Create a PLC Control Object to execute Macro.

1. Set [Type of control] to "Execute macro Program".
2. Set [Macro name] to "[ID:000] macro\_0".
3. Set [Trigger address] to LB-9000.
4. Set [Trigger mode] to "Always active when ON".

**PLC Control**

Description :

PLC name :

Attribute

1. Type of control :

☐ Active only when designated window opened

2. Macro name :

Trigger address

PLC name :

3. Address :

4. Trigger mode :

### 3. Addresses

The addresses used in this demo project are listed below. Please change these addresses according to your system.

Addresses		Object's ID	Detail
Alarm (Event) Log		Window 10	
Word	LW0	MD_0	Read address of the Meter.
	LW1	NE_0	Enter the value to be displayed by Meter.
Bit	LB9000		PLC Control Object for executing macro.