

INSTRUCTION SHEET

for HMI STO 5pp and HMI STU p55

PROGRAMMING THE HMI

To program the Magelis HMI STO/STU products, download the free, demonstration version of Vijeo Designer from www.schneider-electric.com:

Modules	Minimum Vijeo Designer Version
HMI STO 501	6.0 or later
HMI STO 511/512	5.1 or later
HMI STO 531/532	6.0 SP1 or later
HMI STU 655	5.1 or later
HMI STU 855	5.1 SP2 or later

To program any other Magelis devices, order Vijeo Designer from your Schneider Electric vendor.

RELEVANT STANDARDS

These devices are manufactured in accordance with:

- Standard UL 508 and CSA C22.2 n°142 for Industrial Control Equipment
- Standard ANSI/ISA - 12.12.01 and CSA C22.2 n°213 for Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

Notes: HMI STO 5pp are designed to comply to merchant navy rules.

The HMI STU p55 are designed to comply to merchant navy bridge and deck requirements (refer to the Schneider Web site for installation guidelines).

The HMI STO 5pp and HMI STU p55 must be installed, used and maintained in accordance with:

- Standard WEEE, Directive 2002/96/EC
- Standard RoHS, Directive 2002/95/EC
- Standard RoHS China, Standard SJ/T 11363-2006

HMI ZSU KIT

The Accessory Kit for the HMI STU p55 contains:

- USB standard Type A cable holder
- USB Mini-B holder
- Anti-rotation Tee
- Panel adaptor

INSTALLATION PREREQUISITES

For use in Pollution Degree 2 environments.

For use on a flat surface of a Type 13 and/or Type 4X (Indoor Use Only) Enclosure.

HMI STU p55 INSTALLATION

⚠ CAUTION**ENVIRONMENTAL HAZARDS TO THE EQUIPMENT**

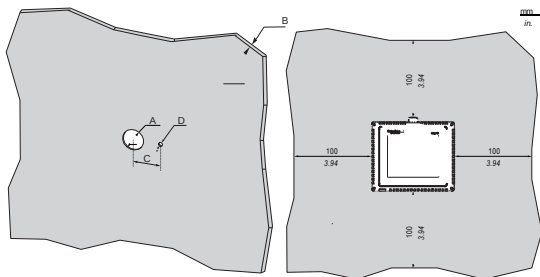
- Mount the device in enclosure that meet the IP54 level of protection for category 3G, IP6x for category 3D and the requirements relating to the 3G or 3D categories in Zones 2/22 (Category 3: normal level of protection - G: Gas - D: Dust).
- Mount the HMI STU p55 according to the manufacturer's specifications.

Failure to follow these instructions can result in injury or equipment damage.

This caution is not covered by UL certification.

HMI STU p55 Cut-Outs

Cut-out dimensions for mounting on a flat surface:



A	B (Steel sheet, for example, cabinet door)	B (Glass fiber reinforced plastics, minimum GF30)	C	D
+0 22.50 mm -0.30 +0 0.88 in. -0.01	1.5 to 6 mm 0.06 to 0.23 in.	3 to 6 mm 0.11 to 0.23 in.	+0 30.00 mm -0.20 +0 1.18 in. -0.007	+0 4.00 mm -0.20 +0 0.15 in. -0.007

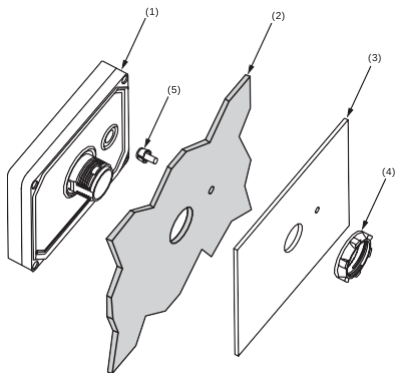
Installing the HMI STU p55

The optional Tee **increases** the device **resistance** to rotating torque.

The optional Panel Adaptor, **supplied** in the HMI ZSU KIT, allows mounting the device on a:

- Metallic support with thickness between 1 and 1,5 mm (0.039 and 0.059 in.)
- Plastic support with thickness between 1 and 3 mm (0.039 and 0.118 in.) for HMI STU 655
- Glass fiber reinforced plastic with thickness between 2 and 3 mm (0.078 and 0.118 in.) for HMI STU 855

The illustration below shows the installation of the device with a Tee and a panel adaptor:



- 1 Display module
- 2 Supporting flat surface (for example, cabinet door)
- 3 Panel adaptor (**HMI ZSU KIT**)
- 4 Nut
- 5 Tee (**HMI ZSU KIT**)

HMI STO 5pp INSTALLATION PROCEDURES

⚠ CAUTION**ENVIRONMENTAL HAZARDS TO THE EQUIPMENT**

- Mount the device in enclosure that meet the IP54 level of protection for category 3G, IP6x for category 3D and the requirements relating to the 3G or 3D categories in Zones 2/22 (Category 3: normal level of protection - G: Gas - D: Dust).
- Mount the HMI STO 5pp according to the manufacturer's specifications.

Failure to follow these instructions can result in injury or equipment damage.

This caution is not covered by UL certification.

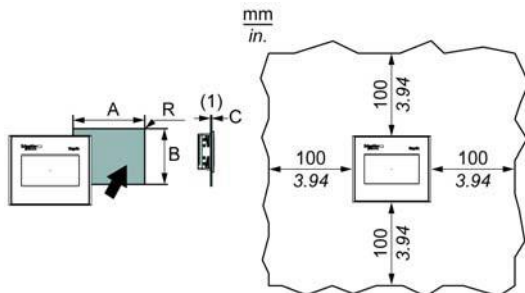
Before installing the device, read the instructions below.

The installation gasket and installation fasteners (screw installation fasteners or spring clips) are required for installing the device.

Mount the terminal in a clean, dry, robust and controlled enclosure (IP65 enclosure).

HMI STO 5pp Cut-Outs

Cut-out dimensions for mounting on a flat surface:



(1) Panel

A 105 mm (4.13 in.)

B 66 mm (2.60 in.)

C From 1.5 to 6.0 mm (0.059 to 0.236 in.)

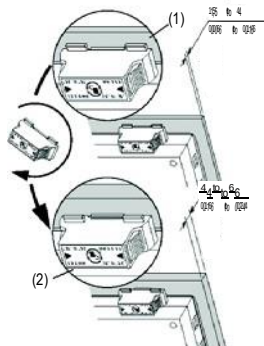
R From 2.0 to 3.0 mm (0.079 to 0.118 in.)

HMI STO 5pp Installation

Spring clips hold the device in the enclosure.

Adjust the spring clips for the panel thickness by turning the spring clip over:

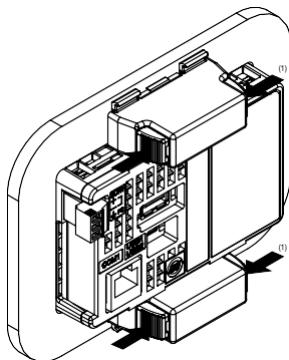
- 1,5 mm (0.059 in.) ≤ panel thickness ≤ 4 mm (0.157 in.) (position 1)
- 4 mm (0.157 in.) ≤ panel thickness ≤ 6 mm (0.236 in.) (position 2)



1. Position 1

2. Position 2

Lock the spring clips by pressing the clip's top and bottom until you hear a click.



1. Click

START-UP, OPERATION AND MAINTENANCE

You must follow all the recommendations described in the HMI STO 5pp User **Manual** and the HMI STU p55 User **Manual**.

Schneider Electric cannot be held responsible for any application or installation not recommended in these **manuals**.

This equipment is suitable for use in Class I, Division 2, Groups A, B, C and D or non-hazardous locations only.

WARNING

RISK OF EXPLOSION IN HAZARDOUS LOCATIONS

- Verify the power, input, and output (I/O) wiring are in accordance with Class I, Division 2 wiring methods.
- Do not substitute any components that impair compliance to Class I, Division 2.
- Do not connect or disconnect equipment unless power has been switched off or the area is non-hazardous.
- Securely lock externally connected units and each interface before turning on the power supply.
- The USB2 connector is for temporary connection only during maintenance and setup of the device. Do not use, connect, or disconnect USB2 cable unless area is known to be non-hazardous.
- Potential electrostatic charging hazard: wipe the front panel of the terminal with a damp cloth before turning ON.
- Use an insulated stylus to activate the touchscreen.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

For HMI STO 501/51p, interfaces are: COM1 and USB1.

For HMI STO 53p, interfaces are: ETHERNET and USB1.

For HMI STU p55, interfaces are: COM1, ETHERNET and USB1.

CAUTION

ENVIRONMENTAL HAZARDS TO THE EQUIPMENT

- Allow the device to reach the surrounding air temperature, not exceeding 50°C (122°F), before turning the device on.
- Do not turn on the device if condensation has occurred inside the device. After it is completely dry again, the device may be turned on.
- Do not expose the device to direct sunlight.
- Do not obstruct the vents in the device casing.
- Remove any dust from the device before turning it on.
- Ensure that the cable installation fasteners are not damaged. Replace them, if necessary.

Failure to follow these instructions can result in injury or equipment damage.

CONNECTING THE POWER CORD

Before using your power cord verify the ground wire is the same gauge or heavier than the power wires.

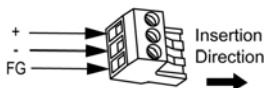
WARNING

SHORT CIRCUITS, FIRE, OR UNINTENDED EQUIPMENT OPERATION

Use a power cord that meets the following requirements:

- Uses copper solid or stranded wires.
- Use D25CE/AZ5CE cable ends to short circuits.
- Uses wires that are 0.2 to 1.5 mm² (24 - 16 AWG).
- Uses wires with a temperature rating of 75°C (167°F).

Failure to follow these instructions can result in death, serious injury, or equipment damage.



Connection	Wire
+	24 V
-	0 V
FG	Grounded terminal connected to the unit chassis.

Note: Mounting screws torque : 0.22 to 0.25 Nm (1.95 to 2.2 lb-in).

USB STANDARD A

When using a USB device, you can attach a USB holder to the USB interface on the side of the unit to prevent the USB cable from being disconnected.

WARNING

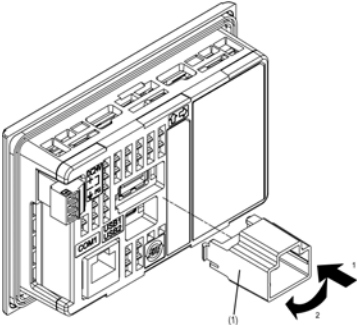
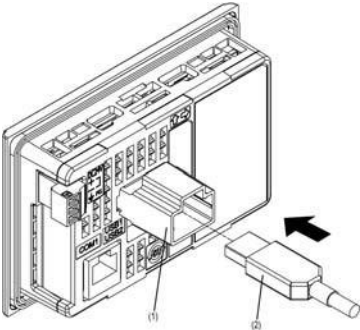
RISK OF EXPLOSION IN HAZARDOUS LOCATIONS

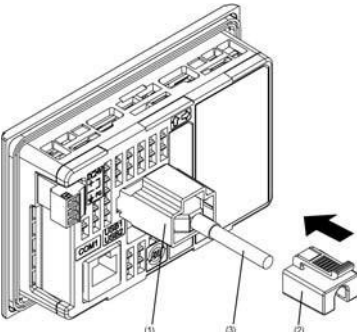
In hazardous locations as described in ANSI/ISA - 12.12.01:

- confirm that the USB cable has been attached with the USB cable clamp before using the USB host interface.
- remove power before attaching or detaching any connector(s) to or from the unit.

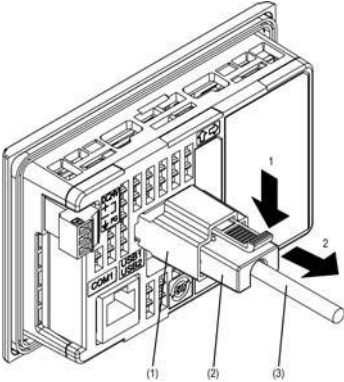
Failure to follow these instructions can result in death, serious injury, or equipment damage.

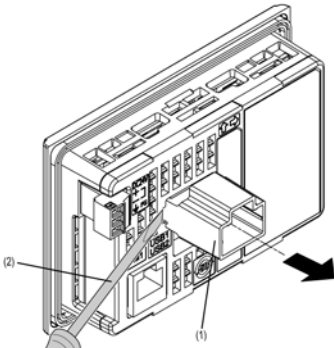
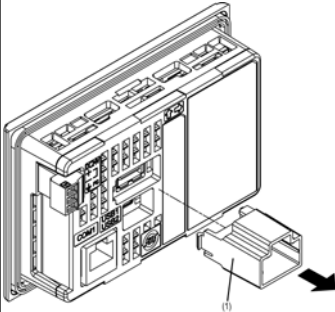
Attaching the USB Holder

Step	Action
1	Attach the USB holder to the USB Host Interface on the main unit. Hook the upper pick of the USB holder to the attachment hole of the main unit and insert the lower pick as shown below to affix the USB holder.  (1) USB holder
2	Insert the USB cable into the USB host interface.  (1) USB holder (2) USB cable

Step	Action
3	Attach the USB cover to fix the USB cable in place. Insert the USB cover into the tab of the USB holder.  (1) USB holder (2) USB cover (3) USB cable

Removing the USB Holder

Step	Action
1	Push down the tab of the USB holder and then remove the USB cover.  (1) USB holder (2) USB cover (3) USB cable
2	Remove the USB cable from the USB host interface.

Step	Action
3	Insert a screwdriver into the slot as shown in the following illustration, pry up the holder.  (1) USB holder (2) Flat-blade Screwdriver less than 6 mm (0.23 in.)
4	Remove the holder.  (1) USB holder

RELATED DOCUMENTS

For further information, you can download the Magelis Small Panels User **Manuals** and other technical information from our website at www.schneider-electric.com

FICHE D'INSTRUCTIONS

pour HMI STO 5pp et HMI STU p55

PROGRAMMATION DU HMI

Pour programmer les produits HMI Magelis STO/STU, téléchargez la version de démonstration gratuite de Vijeo Designer sur www.schneider-electric.com :

Modules	Version minimale de Vijeo-Designer
HMI STO 501	6.0 ou ultérieur
HMI STO 511/512	5.1 ou ultérieur
HMI STO 531/532	6.0 SP1 ou ultérieur
HMI STU 655	5.1 ou ultérieur
HMI STU 855	5.1 SP2 ou ultérieur

Pour programmer tout autre produit Magelis, commandez Vijeo Designer auprès de votre fournisseur Schneider Electric.

NORMES PERTINENTES

Ces appareils ont été fabriqués conformément aux normes suivantes :

- Norme UL 508 et CSA C22.2 n°142 pour équipement de contrôle industriel
- Norme ANSI/ISA - 12.12.01 et CSA C22.2 n°213 pour équipement électrique à utiliser dans des emplacements dangereux de classe I, division 2

Remarques : Les HMI STO 5pp sont conçus pour être conformes aux règles de la marine marchande.

Les appareils HMI STU p55 sont conçus pour répondre aux exigences de passerelle et de pont de la marine marchande (consultez le site web Schneider pour les règles d'installation).

Les appareils HMI STO 5pp et HMI STU p55 doivent être installés, utilisés et entretenus conformément aux normes suivantes :

- Norme DEEE, directive 2002/96/CE
- Norme RoHS, directive 2002/95/CE
- Norme RoHS Chine, norme SJ/T 11363-2006

HMI ZSU KIT

Le kit d'accessoires pour le HMI STU 655/855 contient :

- Support de câble USB standard type A
- Support mini USB B
- Téton antirotation
- Adaptateur de panneau

CONDITIONS REQUISES POUR L'INSTALLATION

A utiliser dans des environnements de degré de pollution 2.

Pour utilisation sur une surface plane d'un boîtier Type 13 et/ou Type 4X (utilisation intérieure seulement).

INSTALLATION DU HMI STU p55

ATTENTION

RISQUES D'ENVIRONNEMENT POUR LES EQUIPEMENTS

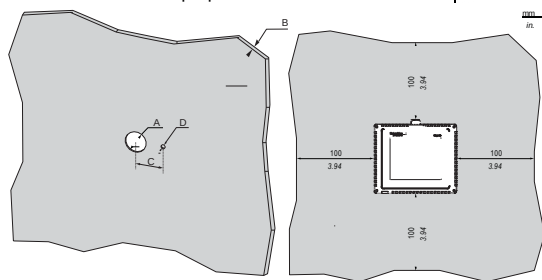
- Montez les terminaux graphiques dans des boîtiers conformes au niveau de protection IP54 pour les catégories 3G, IP6x pour la catégorie 3D et les exigences relatives aux catégories 3G ou 3D dans des zones 2/22 (catégorie 3 : niveau de protection normal – G : Gaz – D : Poussière).
- Montez l'appareil HMI STU p55 selon les spécifications du constructeur.

Le non-respect de ces instructions peut entraîner des blessures ou des dommages matériels.

Cet avis "Attention" n'est pas couvert par la certification UL.

Découpe du HMI STU p55

Dimensions de découpe pour fixation sur une surface plane :



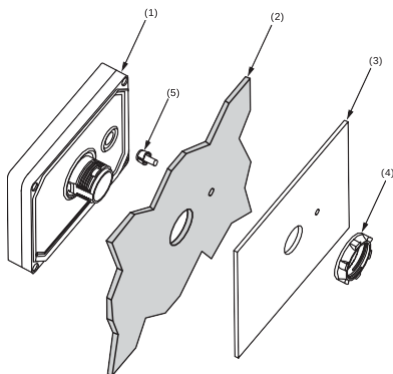
A	B (tôle, par exemple, porte d'armoire)	B (Plastiques renforcés fibre de verre, minimum GF30)	C	D
+0 22,50 mm -0,30 +0 0,88 po -0,01	1,5 à 6 mm	3 à 6 mm	+0 30,00 mm -0,20 +0 1,18 po -0,007	+0 4,00 mm -0,20 +0 0,15 po -0,007

Installation du HMI STU p55

Le téton en option augmente la résistance de l'appareil au couple de rotation. L'adaptateur pour panneau en option, fourni dans le HMI ZSU KIT autorise le montage du produit sur un :

- Support métallique d'épaisseur comprise entre 1 et 1,5 mm (0,039 et 0,059 po)
- Support **plastique** d'épaisseur comprise entre 1 et 3 mm (0,039 et 0,118 po) pour le HMI STU 655
- **Plastique** chargé fibre de verre d'épaisseur comprise entre 2 et 3 mm (0,078 et 0,118 po) pour le HMI STU 855

L'illustration ci-dessous présente l'installation de l'appareil avec un **téton** et un adaptateur de panneau :



- 1 Module d'affichage
- 2 Surface **plane** support (par exemple, porte d'armoire)
- 3 Adaptateur de panneau (en option avec le **HMI ZSU KIT**)
- 4 Ecrou
- 5 Té (en option avec le **HMI ZSU KIT**)

以上内容仅为本文档的试下载部分，为可阅读页数的一半内容。如要下载或阅读全文，请访问：<https://d.book118.com/095104040341011123>