



### Main

|                           |                    |
|---------------------------|--------------------|
| Range of product          | Harmony STO & STU  |
| Product or component type | Touch panel screen |
| Software designation      | Vijeo Designer     |
| Operating system          | Harmony            |
| Processor name            | CPU ARM9           |

### Complementary

|                            |                                                                                                                                                                                           |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Display size               | 3.5 inch                                                                                                                                                                                  |
| Display type               | QVGA TFT colour touchscreen                                                                                                                                                               |
| Display colour             | 65536 colours                                                                                                                                                                             |
| Display resolution         | 320 x 240 pixels QVGA                                                                                                                                                                     |
| Touch panel                | Analogue                                                                                                                                                                                  |
| Backlight lifespan         | 50000 hours                                                                                                                                                                               |
| Brightness                 | 16 levels                                                                                                                                                                                 |
| Character font             | Chinese (simplified Chinese)<br>Japanese (ANK, Kanji)<br>ASCII<br>Korean<br>Taiwanese (traditional Chinese)                                                                               |
| [Us] rated supply voltage  | 24 V DC                                                                                                                                                                                   |
| Supply                     | External source                                                                                                                                                                           |
| Supply voltage limits      | 20.4...28.8 V                                                                                                                                                                             |
| Inrush current             | 30 A                                                                                                                                                                                      |
| Power consumption in W     | 6.5 W                                                                                                                                                                                     |
| Number of pages            | Limited by internal memory capacity                                                                                                                                                       |
| Processor frequency        | 333 MHz                                                                                                                                                                                   |
| Memory description         | Application memory 16 MB<br>Back up of data 64 kB                                                                                                                                         |
| Integrated connection type | 1 USB 2.0 type mini B<br>1 USB 2.0 type A<br>COM1 serial link - female RJ45 - RS232C/RS485 (rate: <= 115.2 kbits/s)<br>Power supply - removable screw terminal block<br>1 Ethernet - RJ45 |
| Realtime clock             | Access to the PLC real-time clock                                                                                                                                                         |
| Downloadable protocols     | Modbus TCP/IP<br>Modbus<br>Uni-TE<br>Third party protocols                                                                                                                                |
| Fixing mode                | Ø 22 mm hole                                                                                                                                                                              |
| Enclosure material         | PC/PBT                                                                                                                                                                                    |
| Marking                    | With Schneider logo<br>CE                                                                                                                                                                 |
| Height                     | 98.15 mm                                                                                                                                                                                  |
| Width                      | 118 mm                                                                                                                                                                                    |
| Depth                      | 55.3 mm                                                                                                                                                                                   |

## Environment

|                                       |                                                                                                            |
|---------------------------------------|------------------------------------------------------------------------------------------------------------|
| Immunity to microbreaks               | 10 ms                                                                                                      |
| Standards                             | IEC 61000-6-2<br>EN 61131-2<br>UL 1604<br>UL 508<br>FCC Class A                                            |
| Product certifications                | CULus<br>C-Tick<br>Marine<br>UL class 1 Div2 T4A ou T5                                                     |
| Ambient air temperature for operation | 0...50 °C                                                                                                  |
| Ambient air temperature for storage   | -20...60 °C                                                                                                |
| Relative humidity                     | 0...85 % without condensation                                                                              |
| Operating altitude                    | <= 2000 m                                                                                                  |
| IP degree of protection               | IP20 (rear panel) conforming to IEC 60529<br>IP65 (front panel) conforming to IEC 60529                    |
| NEMA degree of protection             | NEMA 4X front panel (indoor use)                                                                           |
| Shock resistance                      | 15 gn for 11 ms conforming to IEC 60068-2-27                                                               |
| Vibration resistance                  | +/- 3.5 mm (f = 5...9 Hz) conforming to IEC 60068-2-6<br>1 gn (f = 9...150 Hz) conforming to IEC 60068-2-6 |
| Resistance to electromagnetic fields  | 10 V/m conforming to IEC 61000-4-3                                                                         |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 540 g    |
| Package 1 Height             | 6.5 cm   |
| Package 1 width              | 13 cm    |
| Package 1 Length             | 18.5 cm  |
| Unit Type of Package 2       | S03      |
| Number of Units in Package 2 | 16       |
| Package 2 Weight             | 8.898 kg |
| Package 2 Height             | 30 cm    |
| Package 2 width              | 30 cm    |
| Package 2 Length             | 40 cm    |

## Offer Sustainability

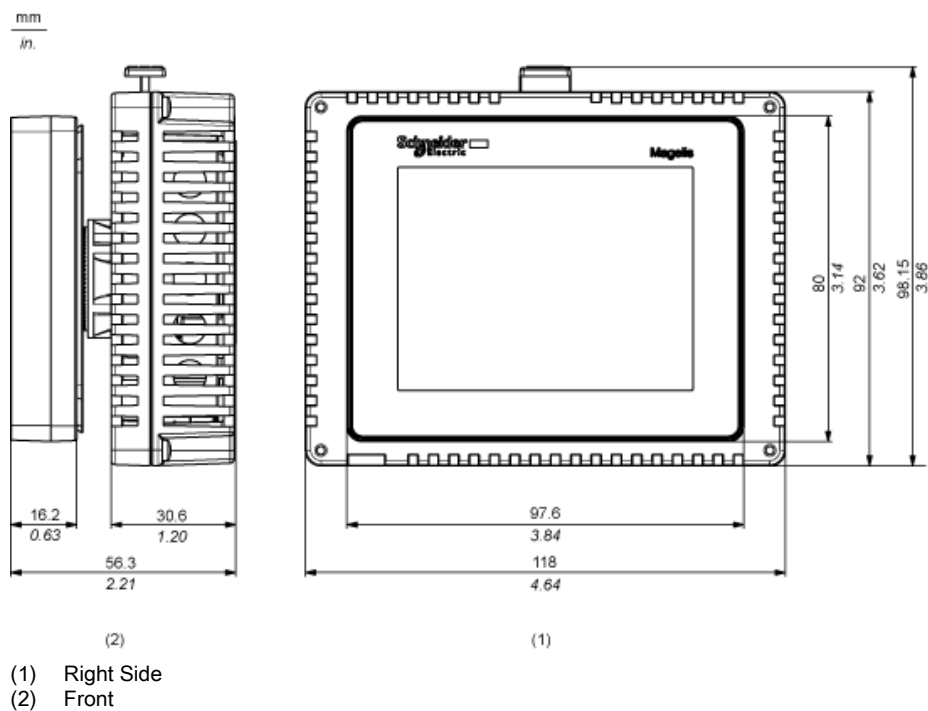
|                            |                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                |
| REACH Regulation           |  <a href="#">REACH Declaration</a>                                                                |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes                                                                                                                                                                                  |
| RoHS exemption information |  <a href="#">Yes</a>                                                                              |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>                                                           |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins                                                          |
| Upgradeability             |  <a href="#">Upgradeable Through Digital Modules And Upgraded Components</a>                      |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

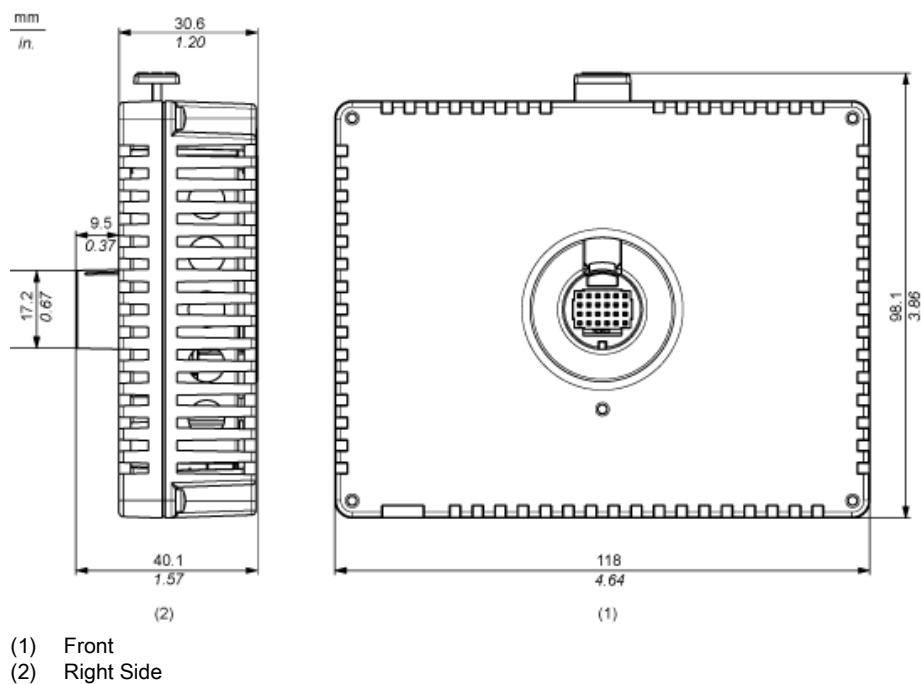
## Display and Rear Modules

### Dimensions



## Rear Module

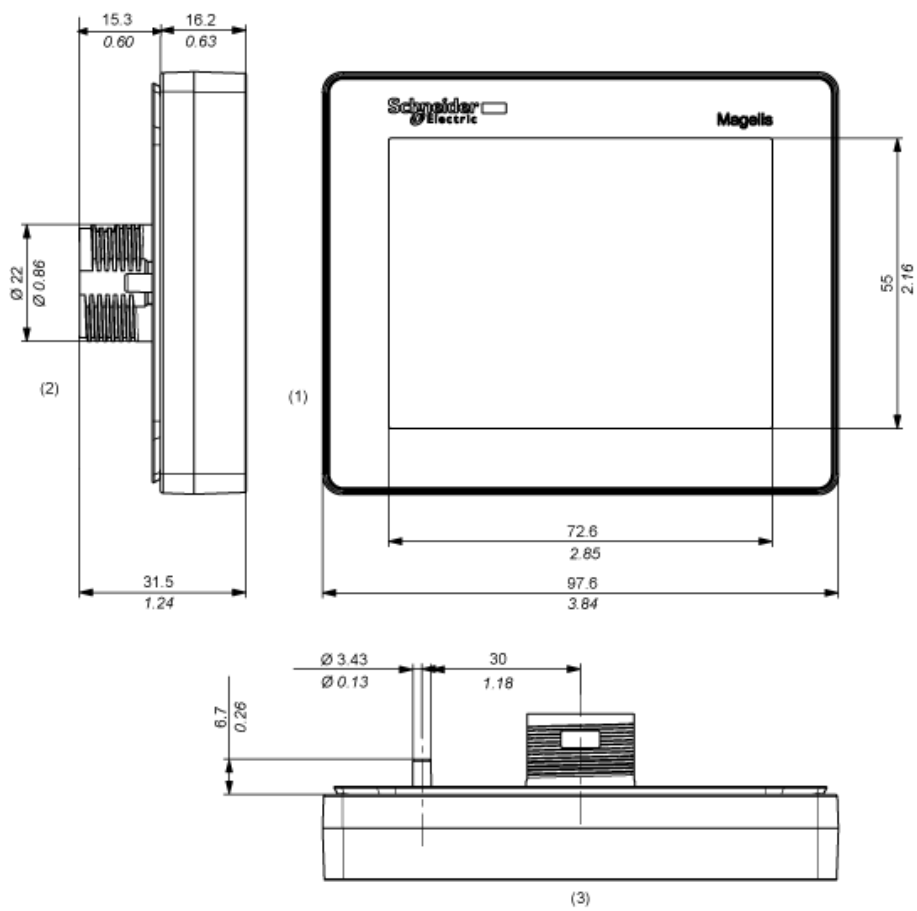
### Dimensions



## Display Module

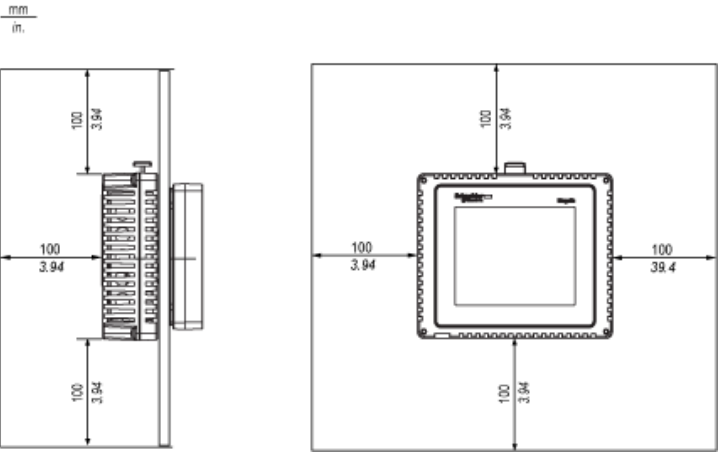
Dimensions

mm  
in.

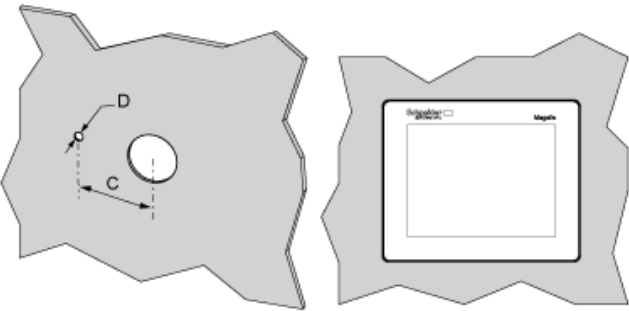


- (1) Front
- (2) Right Side
- (2) Top

Clearance



Panel Cut-out Dimensions



| C (mm) | C (in.) | D (mm) | D (in.) |
|--------|---------|--------|---------|
| +0     | +0      | +0     | +0      |
| 30.00  | 1.18    | 4.00   | 0.15    |
| -0.20  | -0.007  | -0.20  | -0.007  |

NOTE: With the tee option, the rotating torque that can be supported by the display module is 6 Nm (53.10 in-lb).