

# Product datasheet

Specifications



advanced touchscreen panel - 320 x 240 pixels QVGA - 5.7" TFT LCD - 24 V DC

XBTGT2330

⚠ Discontinued on: 31-Dec-2015

⚠ To be end-of-service on: 31-Dec-2025

⚠ Discontinued

## Main

|                                       |                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product                      | Harmony XBTGT                                                                                                                                                                                                                                                                                                                                                  |
| Product or component type             | Advanced touchscreen panel                                                                                                                                                                                                                                                                                                                                     |
| Display type                          | Backlit colour TFT LCD                                                                                                                                                                                                                                                                                                                                         |
| Display colour                        | 65536 colours                                                                                                                                                                                                                                                                                                                                                  |
| Display resolution                    | 320 x 240 pixels QVGA                                                                                                                                                                                                                                                                                                                                          |
| Display size                          | 5.7 inch                                                                                                                                                                                                                                                                                                                                                       |
| Software type                         | Configuration software                                                                                                                                                                                                                                                                                                                                         |
| Software designation                  | Vijeo Designer                                                                                                                                                                                                                                                                                                                                                 |
| Operating system                      | Harmony                                                                                                                                                                                                                                                                                                                                                        |
| Processor name                        | CPU RISC                                                                                                                                                                                                                                                                                                                                                       |
| Processor frequency                   | 133 MHz                                                                                                                                                                                                                                                                                                                                                        |
| Memory description                    | 512 KB SRAM back up of data with lithium battery back-up<br>16 MB flash EPROM application memory                                                                                                                                                                                                                                                               |
| Integrated connection type            | male SUB-D 9 connector COM1 serial link with RS232C/RS422/RS485 interface at <= 115.2 kbits/s<br>removable screw terminal block connector power supply<br>RJ45 connector Ethernet TCP/IP<br>USB type A master port (V1.1), compatible with Modicon M340 terminal port communication<br>RJ45 connector COM2 serial link with RS485 interface at <= 187.5 kbit/s |
| Resistance to electrostatic discharge | 6 kV conforming to IEC 61000-4-2 level 3                                                                                                                                                                                                                                                                                                                       |
| Cut-out dimensions                    | 156 (+ 1/- 0) x 123.5 (+ 1/- 0) mm                                                                                                                                                                                                                                                                                                                             |

## Complementary

|                           |                                                                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Touch sensitive zone      | 1024 x 1024                                                                                                                       |
| Touch panel               | Analogue                                                                                                                          |
| Backlight lifespan        | 50000 hours                                                                                                                       |
| Brightness                | 8 levels via touch panel                                                                                                          |
| Character font            | Japanese (ANK, Kanji)<br>ASCII (European characters)<br>Chinese (simplified Chinese)<br>Korean<br>Taiwanese (traditional Chinese) |
| [Us] rated supply voltage | 24 V DC                                                                                                                           |
| Supply                    | External source                                                                                                                   |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                        |                                                                                                                                                                                                                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supply voltage limits  | 19.2...28.8 V                                                                                                                                                                                                                                                                                                                                                 |
| Inrush current         | 30 A                                                                                                                                                                                                                                                                                                                                                          |
| Power consumption in W | 26 W                                                                                                                                                                                                                                                                                                                                                          |
| Local signalling       | 1 LED (green or orange) for normal operation or backlighting faulty                                                                                                                                                                                                                                                                                           |
| Number of pages        | Limited by internal memory capacity                                                                                                                                                                                                                                                                                                                           |
| Downloadable protocols | Telemecanique Modicon FIPWAY<br>Telemecanique Modicon Modbus Plus<br>Telemecanique Modicon Modbus TCP/IP<br>Telemecanique Modicon Modbus<br>Mitsubishi Melsec third party protocols<br>Omron Sysmac third party protocols<br>Rockwell Automation Allen-Bradley third party protocols<br>Siemens Simatic third party protocols<br>Telemecanique Modicon Uni-TE |
| Realtime clock         | Built-in                                                                                                                                                                                                                                                                                                                                                      |
| Data storage equipment | 1 Compact Flash card >= 1 GB                                                                                                                                                                                                                                                                                                                                  |
| Use of slot            | For 1 fieldbus communication card (Device Net, Profibus DP)                                                                                                                                                                                                                                                                                                   |
| Port Ethernet          | 10BASE-T/100BASE-TX                                                                                                                                                                                                                                                                                                                                           |
| Product mounting       | Flush mounting                                                                                                                                                                                                                                                                                                                                                |
| Fixing mode            | By 4 screw clamps<br>By 2 spring clips                                                                                                                                                                                                                                                                                                                        |
| Front material         | Aluminium alloy                                                                                                                                                                                                                                                                                                                                               |
| Enclosure material     | PPT                                                                                                                                                                                                                                                                                                                                                           |
| Marking                | CE                                                                                                                                                                                                                                                                                                                                                            |
| width                  | 167.5 mm                                                                                                                                                                                                                                                                                                                                                      |
| Height                 | 135 mm                                                                                                                                                                                                                                                                                                                                                        |
| Depth                  | 59.5 mm                                                                                                                                                                                                                                                                                                                                                       |
| Net weight             | 1 kg                                                                                                                                                                                                                                                                                                                                                          |

## Environment

|                                       |                                                                                                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunity to microbreaks               | 5 ms                                                                                                                                                  |
| Standards                             | UL 1604<br>UL 508<br>EN 61131-2<br>FCC Class A<br>IEC 61000-6-2<br>CSA C22.2 No 14                                                                    |
| Product certifications                | UL Class 1 Division 2 T4A<br>ATEX zone 2/22<br>cULus<br>CSA Class 1 Division 2 T5<br>CSA Class 1 Division 2 T4A<br>C-Tick<br>UL Class 1 Division 2 T5 |
| Ambient air temperature for operation | 0...50 °C                                                                                                                                             |
| Ambient air temperature for storage   | -20...60 °C                                                                                                                                           |
| Relative humidity                     | 0...90 % 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                 | 1 gn conforming to IEC 60068-2-6 (f = 9...150 Hz)<br>3.5 mm conforming to IEC 60068-2-6 (f = 5...9 Hz) |
| Resistance to electromagnetic fields | 10 V/m conforming to IEC 61000-4-3                                                                     |
| Resistance to fast transients        | 2 kV conforming to IEC 61000-4-4 level 3                                                               |

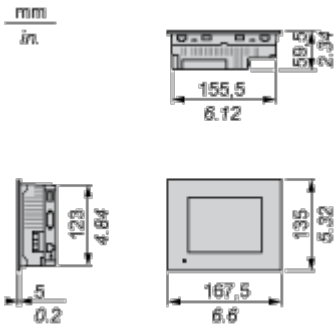
## Contractual warranty

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

Dimensions Drawings

Dimensions

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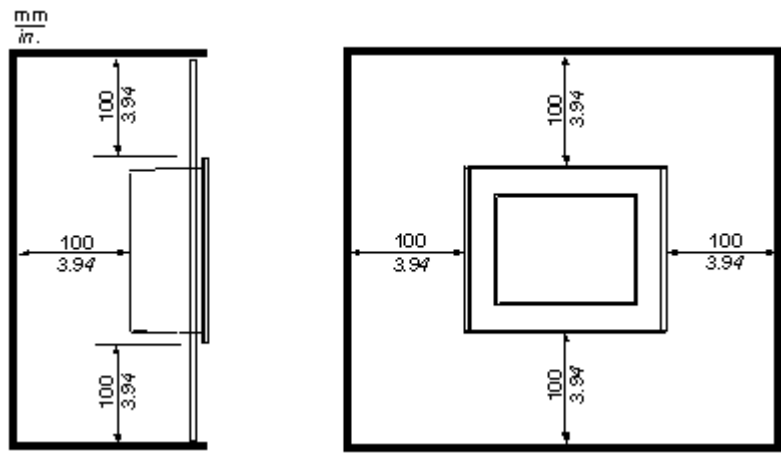


Mounting and Clearance

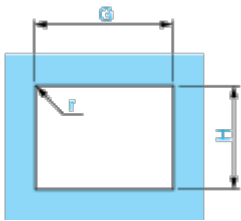
Clearance

Installation Requirements

For easier maintenance, operation and improved ventilation, be sure to install the unit at least 100 mm (3.94 in) away from adjacent structures and other equipment:



Panel Cut-out Dimensions



Dimensions in mm

| Graphic Display Terminal                                      | Cut-out for Flush Mounting |                |        |                 |
|---------------------------------------------------------------|----------------------------|----------------|--------|-----------------|
|                                                               | H (-/+ 0.1 mm)             | G (-/+ 0.1 mm) | r      | Panel Thickness |
| XBTGT1105<br>XBTGT1135<br>XBTGT1335                           | 92.5                       | 118            | 3 max. | 1.6 ... 5       |
| XBTGT2110<br>XBTGT2120<br>XBTGT2130<br>XBTGT2220<br>XBTGT2330 | 123.5                      | 156            | 3 max. | 1.6 ... 5       |
| XBTGT4230<br>XBTGT4330<br>XBTGT4340                           | 159.5                      | 204.5          | 3 max. | 1.6 ... 10      |
| XBTGT5230<br>XBTGT6330<br>XBTGT6340                           | 227.5                      | 301.5          | 3 max. | 1.6 ... 10      |
| XBTGT5330<br>XBTGT5340                                        | 201                        | 259            | 3 max. | 1.6 ... 10      |
| XBTGT7340                                                     | 282.5                      | 383.5          | 3 max. | 1.6 ... 10      |

Dimensions in in.

| Graphic Display Terminal                                      | Cut-out for Flush Mounting |                  |           |                 |
|---------------------------------------------------------------|----------------------------|------------------|-----------|-----------------|
|                                                               | H (-/+0.004 in.)           | G (-/+0.004 in.) | r         | Panel Thickness |
| XBTGT1105<br>XBTGT1135<br>XBTGT1335                           | 3.64                       | 4.65             | 0.12 max. | 0.06 ... 0.20   |
| XBTGT2110<br>XBTGT2120<br>XBTGT2130<br>XBTGT2220<br>XBTGT2330 | 4.86                       | 6.14             | 0.12 max. | 0.06 ... 0.20   |
| XBTGT4230<br>XBTGT4330<br>XBTGT4340                           | 6.28                       | 8.05             | 0.12 max. | 0.06 ... 0.39   |
| XBTGT5230<br>XBTGT6330<br>XBTGT6340                           | 8.96                       | 11.87            | 0.12 max. | 0.06 ... 0.39   |

| Graphic Display Terminal | Cut-out for Flush Mounting |                  |           |                 |
|--------------------------|----------------------------|------------------|-----------|-----------------|
|                          | H (-/+0.004 in.)           | G (-/+0.004 in.) | r         | Panel Thickness |
| XBTGT5330<br>XBTGT5340   | 7.91                       | 10.20            | 0.12 max. | 0.06 ... 0.39   |
| XBTGT7340                | 11.12                      | 15.10            | 0.12 max. | 0.06 ... 0.39   |