



## Main

|                           |                    |
|---------------------------|--------------------|
| Range of product          | Pro-face GP4000    |
| Product or component type | Touch panel screen |
| Software designation      | GP-Pro EX          |

## Complementary

|                                |                                                                                                                                                                                                                                                                                     |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Display size                   | 12.1 inch                                                                                                                                                                                                                                                                           |
| Display type                   | Colour TFT LCD                                                                                                                                                                                                                                                                      |
| Display colour                 | 65536 colours                                                                                                                                                                                                                                                                       |
| Display resolution             | 800 x 600 pixels SVGA                                                                                                                                                                                                                                                               |
| Touch panel                    | Single touch analogue resistive                                                                                                                                                                                                                                                     |
| Backlight lifespan             | 50000 hours with white                                                                                                                                                                                                                                                              |
| Brightness                     | 16 levels via touch panel<br>16 levels by software                                                                                                                                                                                                                                  |
| Character font                 | Japanese<br>ASCII<br>Chinese (simplified Chinese)<br>Chinese (traditional Chinese)<br>Korean<br>Cyrillic<br>Thai                                                                                                                                                                    |
| [Us] rated supply voltage      | 24 V DC                                                                                                                                                                                                                                                                             |
| Inrush current                 | 30 A                                                                                                                                                                                                                                                                                |
| Input voltage limits           | 19.2...28.8 V DC                                                                                                                                                                                                                                                                    |
| Voltage endurance              | 1000 V AC during 1 min                                                                                                                                                                                                                                                              |
| Local signalling               | Status LED green, steady for offline<br>Status LED green, steady for operating status (RUN)<br>Status LED green, flashing for logic stop<br>Status LED orange, flashing for software starting up<br>Status LED red, steady for power ON<br>Status LED red, flashing for ERR (Error) |
| Maximum power consumption in W | 17 W<br>12 W when power is not supplied to external devices<br>7 W backlight off (standby mode)<br>8 W backlight dimmed (brightness: 20%)                                                                                                                                           |
| Memory description             | User data memory 32 MB<br>Backup memory 320 kB                                                                                                                                                                                                                                      |

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Integrated connection type | COM1 serial link 1 SUB-D 9-pin male, interface: RS232C, transmission rate: 2400...115200 bps<br>COM2 serial link 1 SUB-D 9-pin female, interface: RS-485 (isolation), transmission rate: 2400...115200 bps<br>COM2 serial link 1 SUB-D 9-pin female, interface: RS-485 (isolation), transmission rate: 187.5 kbps compatible with MPI<br>USB 2.0 type A<br>USB 2.0 type mini B<br>Ethernet 1 RJ45, interface: 10BASE-T/100BASE-TX<br>SD card slot |
| Electrical connection      | Cable 2 mm <sup>2</sup> , AWG 14, max resistance 100 Ohm for functional grounding                                                                                                                                                                                                                                                                                                                                                                 |
| Type of cooling            | AN (air natural)                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Fixing mode                | By 4 screws, mounting on 1.6...5 mm thick panel                                                                                                                                                                                                                                                                                                                                                                                                   |
| Cut-out dimensions         | 301.5 x 227.5 mm panel cut dimension                                                                                                                                                                                                                                                                                                                                                                                                              |
| Height                     | 241 mm                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Width                      | 315 mm                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Depth                      | 56 mm                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Net weight                 | 2.5 kg                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Environment

|                                       |                                                                                                                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | EN 61000-6-4<br>IEC 61000-6-2<br>UL 508<br>CSA C22.2 No 142<br>ANSI/ISA 12.12.01<br>CSA C22.2 No 213 Class I Division 2                                                                                                        |
| Product certifications                | UL[RETURN]cUL[RETURN]CE[RETURN]UKCA[RETURN]UKEX[RETURN]KC[RETURN]CCC<br>Ex[RETURN]RCM[RETURN]EAC[RETURN]DNV[RETURN]ABS[RETURN]LR[RETURN]BV[RETU                                                                                |
| Directives                            | 2014/35/EU - low voltage directive<br>2014/30/EU - electromagnetic compatibility<br>2012/19/EU - WEEE directive<br>2011/65/EU - RoHS<br>2015/863/EU - RoHS directive                                                           |
| Ambient air temperature for operation | 0...55 °C                                                                                                                                                                                                                      |
| Ambient air temperature for storage   | -20...60 °C                                                                                                                                                                                                                    |
| Relative humidity                     | 10...90 % non condensing                                                                                                                                                                                                       |
| Storage Relative Humidity             | 10...90 % non condensing                                                                                                                                                                                                       |
| Operating altitude                    | 2000 m                                                                                                                                                                                                                         |
| IP degree of protection               | IP65f (front panel (in enclosure))                                                                                                                                                                                             |
| NEMA degree of protection             | NEMA 4X front panel (in enclosure)<br>NEMA 13 front panel (in enclosure)                                                                                                                                                       |
| Pollution degree                      | 2                                                                                                                                                                                                                              |
| Environmental characteristic          | Corrosive gas free                                                                                                                                                                                                             |
| Shock resistance                      | 147 m/s <sup>2</sup> (X, Y, Z directions for 3 times) conforming to EN/IEC 61131-2                                                                                                                                             |
| Vibration resistance                  | 3.5 mm (f = 5...9 Hz) X, Y, Z directions for 10 cycles (approx. 100 min) conforming to EN/IEC 61131-2<br>9.8 m/s <sup>2</sup> (f = 9...150 Hz) X, Y, Z directions for 10 cycles (approx. 100 min) conforming to EN/IEC 61131-2 |
| Insulation resistance                 | > 10 MOhm                                                                                                                                                                                                                      |
| Electromagnetic compatibility         | Electrostatic discharge immunity test - test level: 6 kV (contact discharge) conforming to EN/IEC 61000-4-2 level 3                                                                                                            |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 17.500 cm |
| Package 1 Width              | 32.000 cm |
| Package 1 Length             | 39.800 cm |
| Package 1 Weight             | 3.395 kg  |
| Unit Type of Package 2       | P06       |
| Number of Units in Package 2 | 8         |
| Package 2 Height             | 75.000 cm |
| Package 2 Width              | 60.000 cm |

|                  |           |
|------------------|-----------|
| Package 2 Length | 80.000 cm |
| Package 2 Weight | 37.160 kg |

### 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)                                                                      |
| Mercury free               | Yes                                                                                                                             |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>        |
| RoHS exemption information |  <a href="#">Yes</a>                           |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a> |
| Circularity Profile        |  <a href="#">End Of Life Information</a>       |