# PROCENTEC



# ComBricks Head Station 1A/1B/1C

Technical Data

## Technical Data - Head Station 1A (101-2011A)/1B (101-2011B)/1C (101-2011C)

### Type differences (Hardware is identical with all types)

| | |
|---|---|
| Head Station 1A | No ProfiTrace OE |
| Head Station 1B | ProfiTrace OE for 1 PROFIBUS network + ProfiTrace 2 live streaming + OPC (since June 2013) |
| Head Station 1C | ProfiTrace OE for 4 PROFIBUS networks + ProfiTrace 2 live streaming + OPC |
| For all Head Stations | CommDTM |

### Dimensions and weight

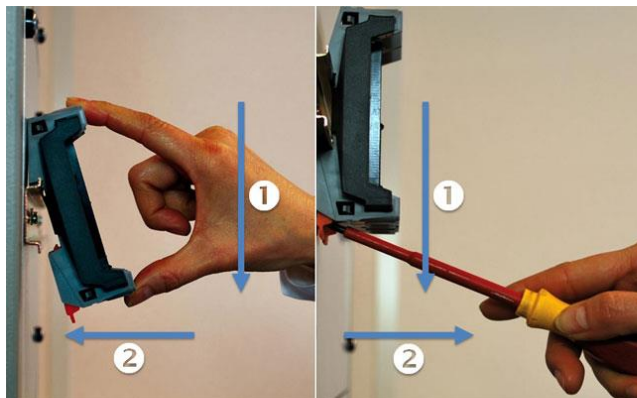| | |
|---|---|
| Dimensions L x W x H | 135 x 25 x 103 mm (including backplane, per module) |
| Weight | 150 g (excluding plug-able connectors and packing material) |
| Mounting DIN-rail type | 35mm × 7,5mm (EN 50022, BS 5584, DIN 46277-3) |

### Ambient conditions

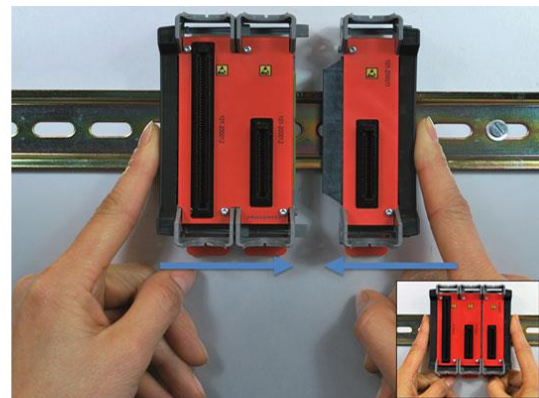| | |
|---|---|
| Ambient operating temperature range | -20º … +60º Celsius (for mounting position see manual) <br> -4º … 158º Fahrenheit |
| Isolating class | IP 20 (IEC/EN 60529, DIN 40050) |

### Power supply

| | |
|---|---|
| Power supply operating voltage range | 12 to 24 VDC (tolerance range 11 to 26 VDC) <br> Do not connect, if the power on backplane is supplied by a PWR-6A module. |
| Typical own Current consumption | 73 mA at 24 VDC (externally powered) <br> 230 mA at 5.72 VDC (externally or PWR-6A module powered) |
| Max. Current consumption | 800 mA at 24 VDC (current consumption of other modules included) |
| Power dissipation | Max. 1.32 W (own power dissipation) <br> Max. 20W (power dissipation of other modules included) |
| Reverse polarity protection <br> Redundant power supply <br> Wire diameter | Yes <br> Yes <br> < 2.5 mm$^2$ <br><br> Installation notes: <br> The device shall be supplied from an isolating transformer having a secondary Listed fuse rated either: <br> • Maximum 5 amps for voltages 12 to 20 V, or <br> • Maximum 4 amps for voltages 21 to 24 V, <br> or is supplied by a Class 2 power supply, or equivalent. |

## Backplane

| | |
|---|---|
| Modules | 32 (10 repeater modules positioned in the first 10 slots) |
| Current available for the backplane | 2.5 A |
| PROFIBUS networks | 4 |
| Compatible backplane units | 101-200022, 101-200023, 101-200024, 101-200027 |

## Ethernet

| | |
|---|---|
| Connector | RJ-45 |
| Cable length | Max. 100 m |
| Link speed | 10 / 100 Mbps |
| MAC address | 9C.B2.06.xx.xx.xx (label on the side of the Head Station) |
| Supported protocols | HTTP, FTP, SMTP, TELNET, DHCP, SNMP |
| Default IP address after reset/purchase | **192.168.1.254** |
| Connections | 20 simultaneous web server clients |

## Relay contact

| | |
|---|---|
| Resistance | 300 mOhm (plug included) |
| Voltage | 24 VAC |
| Current | 0.5 A |
| | Installation notes:<br>The Relay output shall be supplied from an isolating transformer having a secondary Listed fuse rated either:<br>• Maximum 5 amps for voltages 12~20 V, or<br>• Maximum 4 amps for voltages 21~24 V,<br>or is supplied by a Class 2 power supply, or equivalent. |

## SD Card

| | |
|---|---|
| Types | SD and SDHC |
| Size | Max. 32 GB (1 GB is provided) |

## Connector Lay-out

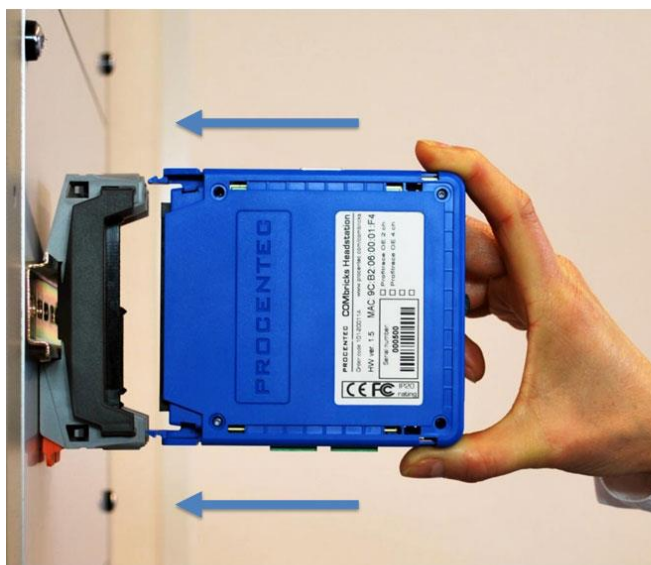| | |
|---|---|
| Power supply | Plug-able screw connector, pitch 5,08 mm<br>Pin - :  0 V<br>Pin +:  24 VDC<br>Pin SH: Shield<br><br>SH connected internally to DIN-rail with spring-loaded contact |
| Alarm contact | Pin 1: NO<br>Pin 2: NO<br>potential-free relay contact, normally open |

| Standards and approvals | |
|---|---|
| CE | EMC Directive 2014/30/EU, class A Digital Device<br>RoHS Directive 2011/65/EU |
| FCC | 47 CFR 15, Unintentional Radiator, class A Digital Device. |
| UL | Report reference: E468970<br><br>Standards for safety: UL 508 - Industrial Control Equipment CSA C22.2 No. 142-M1987 - Industrial Control Equipment |

| Others | |
|---|---|
| MTBF | 2873918 hours, at 30º Celsius, IEC TR 62380 |



**Mounting and un-mounting backplanes**



**Adding additional backplanes**



**Inserting modules**



Redundant power supply option

**Powering the Head Station**