Product data sheet Characteristics

BMEP582040H

Processor module, Modicon M580, Level 2, Remote Harsh





Main

| Mani | | |
|------------------------------|-------------------------|--|
| Range of product | Modicon M580 | |
| Product or component type | Processor module | |
| Product specific application | For severe environments | |

Complementary

| Number of racks | 4 |
|---|--|
| Local I/O processor capacity (discrete) | 2048 I/O |
| Local I/O processor capacity (analog) | 512 I/O |
| Number of application specific channel (local rack) | 72 |
| Application specific I/O | Counter HART SSI encoder Accurate time stamping Motion control Serial link |
| Checks | Process control |
| Control channels | Programmable loops |
| Integrated connection type | 1 Ethernet TCP/IP for service port 2 Ethernet TCP/IP for device network USB type mini B |
| Number of remote I/O station | 8 - 2 rack(s) per remote drop |
| Number of distributed equipment | 64 |
| Communication module processor capacity | 2 Ethernet communication module 8 AS-Interface module |
| Communication service | RIO scanner DIO scanner |
| Memory description | Expandable flash, 4 GB for data storage Integrated RAM, 10 kB for system memory Integrated RAM, 8 MB for program Integrated RAM, 768 kB for data |
| Application structure | 1 periodic fast task 64 event tasks 1 cyclic/periodic master task 2 auxiliary tasks |
| Number of instructions per ms | 7.5 Kinst/ms 65 % Boolean + 35 % fixed arithmetic 10 Kinst/ms 100 % Boolean |
| Current consumption | 270 mA at 24 V DC |
| MTBF reliability | 600000 H |
| Marking | CE |

Environment

| Environment | |
|---------------------------------------|---|
| Vibration resistance | 3 gn |
| Shock resistance | 30 gn |
| Ambient air temperature for operation | -2570 °C |
| Ambient air temperature for storage | -4085 °C |
| Operating altitude | 02000 m 20005000 m with derating factor |
| Relative humidity | 595 % at 55 °C without condensation |
| IP degree of protection | IP20 |
| Directives | 2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility 2014/34/EU - ATEX directive |
| Product certifications | CE UL CSA RCM EAC Merchant Navy ATEX zone 2/22 IECEx zone 2/22 |
| Standards | EN/IEC 61131-2 EN/IEC 61010-2-201 UL 61010-2-201 CSA C22.2 No 61010-2-201 IACS E10 EN/IEC 61000-6-5, interface type 1 and type 2 EN/IEC 61850-3, location G EN/IEC 60079-0 |
| Environmental characteristic | Gas resistant class Gx conforming to ISA S71.04 Gas resistant class 3C4 conforming to IEC 60721-3-3 Dust resistant class 3S4 conforming to IEC 60721-3-3 Sand resistant class 3S4 conforming to IEC 60721-3-3 Salt resistant level 2 conforming to IEC 68252 Mold growth resistant class 3B2 conforming to IEC 60721-3-3 Fungal spore resistant class 3B2 conforming to IEC 60721-3-3 Hazardous location class I division 2 |
| Protective treatment | Conformal coating |
| Supply | Internal power supply via rack |
| Status LED | 1 LED (green)processor running (RUN) 1 LED (red)processor or system fault (ERR) 1 LED (red)l/O module fault (I/O) 1 LED (green)download in progress (DL) 1 LED (red)memory card or CPU flash fault (BACKUP) 1 LED (green/red)ETH MS (Ethernet port configuration status) 1 LED (green/red)Eth NS (Ethernet network status) |
| Net weight | 0.849 kg |
| | |

Packing Units

| Package 1 Weight | 0.895 kg | |
|------------------|------------|--|
| Package 1 Height | 95.000 mm | |
| Package 1 width | 180.000 mm | |
| Package 1 Length | 260.000 mm | |

Offer Sustainability

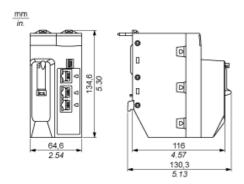
| Sustainable offer status | Green Premium product |
|----------------------------|--|
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| Mercury free | Yes |
| RoHS exemption information | ₫Yes |
| China RoHS Regulation | [©] China RoHS Declaration |
| | |

| Circularity Profile | [™] End Of Life Information |
|---------------------|---|
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

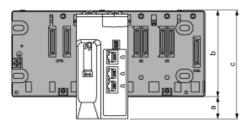
Product data sheet Dimensions Drawings

BMEP582040H

CPU Module Only

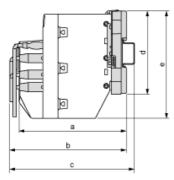


Modules Mounted on Racks



- a: additional space below the rack to accommodate the height of the CPU. For an X Bus rack, the value is 30.9 mm (1.217 in.); for an Ethernet rack, the value is 29.49 mm (1.161 in.).
- b: the height of the rack. For an X Bus rack, the height is 103.7 mm (4.083 in.); for an Ethernet rack, the height is 105.11 mm (4.138 in.).
- c: the height of the main local rack, 134.6 mm (5.299 in.)

Modules and Cables Mounted in an Enclosure



- a: enclosure depth: 135 mm (5.315 in.)
- b: wiring + module depth: > 146 mm (5.748 in.)
- c: wiring + module + DIN rail depth: > 156 mm (6.142 in.)
- d: rack height: for an X Bus rack 103.7 mm (4.083 in.); for an Ethernet rack, 105.11 mm (4.138 in.)
- e: module height: 134.6 mm (5.299 in.)