

Schneider BME Series Service Manual

BMEP581020H

1. Description

BMEP581020H Main

3. Product Information

BMEP581020H Main

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)

1024 I/O

Local I/O processor capacity (analog)

256 I/O

Number of application specific channel (local rack)

36

Application specific I/O

Serial link

Counter

Accurate time stamping

Motion control

SSI encoder

HART

Checks

Process control

Control channels

Programmable loops

Integrated connection type

1 Ethernet TCP/IP service port

2 Ethernet TCP/IP device network

USB type mini B

Number of distributed equipment

64

Communication module processor capacity

2 Ethernet communication module

2 AS-Interface module

Communication Service

DIO scanner

Memory description

Integrated RAM, 4 MB program

Integrated RAM, 384 kB data

Expandable flash, 4 GB data storage

Integrated RAM, 10 kB system memory

Application structure

1 cyclic/periodic master task

64 event tasks

1 periodic fast task

2 auxiliary tasks

Number of instructions per ms

30 Kinst/ms 65 % Boolean + 35 % fixed arithmetic

40 Kinst/ms 100 % Boolean

Current consumption

270 mA 24 V DC

MTBF reliability

775000 H

Marking

CE

Environment

Vibration resistance

3 gn

Shock resistance

30 gn

Ambient Air Temperature for Operation

-13...158 °F (-25...70 °C)

Ambient Air Temperature for Storage

-40...185 °F (-40...85 °C)

Operating altitude

0...6561.68 ft (0...2000 m)

2000...5000 m with derating factor

Relative humidity

5...95 % 131 °F (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

IEC 61131-2

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

IEC 60079-0

Environmental characteristic

Gas resistant class Gx ISA S71.04

Gas resistant class 3C4 IEC 60721-3-3

Dust resistant class 3S4 IEC 60721-3-3

Sand resistant class 3S4 IEC 60721-3-3

Salt resistant level 2 IEC 68252

Mold growth resistant class 3B2 IEC 60721-3-3

Fungal spore resistant class 3B2 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) I/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)

Product Weight

1.872 lb(US) (0.849 kg)

Ordering and shipping details

Category

US1PC3418161

Discount Schedule

PC34

GTIN

3595864174471

Returnability

Yes

Country of origin

FR

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

3.54 in (9.000 cm)

Package 1 Width

7.09 in (18.000 cm)

Package 1 Length

9.96 in (25.300 cm)

Package weight(Lbs)

31.464 oz (892.000 g)

Unit Type of Package 2

S03

Number of Units in Package 2

6

Package 2 Height

11.81 in (30.000 cm)

Package 2 Width

11.81 in (30.000 cm)

Package 2 Length

15.75 in (40.000 cm)

Package 2 Weight

12.610 lb(US) (5.720 kg)