

Schneider BME Series Service Manual

BMEP581020

1. Description

standalone processor, Modicon M580, 4MB, 61 Ethernet devices, 4 local IO racks of 1024 digital, 256 analog [TAA]

3. Product Information

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Main

Range of Product

Modicon M580

Product or Component Type

Processor module

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

Accurate time stamping

Motion control

Counter

HART

SSI encoder

Serial link

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 periodic fast task

2 auxiliary tasks

1 cyclic/periodic master task

64 event tasks

Cybersecurity

Achilles certified

DoS prevention

IPSec

SNMP logging

Syslog protocol support

Transport layer security

Audit trail

Embedded firewall

Firmware signature

Password protection

Port hardening

Secure communication (HTTPS)

Security log

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

32...140 °F (0...60 °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

Product certifications

CE

UL

CSA

RCM

EAC

Merchant Navy

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

Environmental characteristic

Hazardous location class I division 2

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

3595864174303

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

7.01 in (17.800 cm)

Package 1 Length

9.92 in (25.200 cm)

Package weight(Lbs)

30.723 oz (871.000 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

12.478 lb(US) (5.660 kg)

Unit Type of Package 3

P06

Number of Units in Package 3

48

Package 3 Height

29.53 in (75.000 cm)

Package 3 Width

23.62 in (60.000 cm)

Package 3 Length

31.50 in (80.000 cm)

Package 3 Weight

121.872 lb(US) (55.280 kg)