

Schneider BME Series Service Manual

BMEH586040

1. Description

redundant processor, Modicon M580, 64MB, 61 Ethernet devices, 31 remote IO racks of X80 and Quantum IO [TAA]

3. Product Information

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Main

Range of Product

Modicon M580

Product or Component Type

Redundant processor module

Complementary

Number of racks

1

Application specific I/O

Counter

SSI encoder

Serial link

HART

Accurate time stamping

Motion control

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

1 Ethernet HSBY port

Number of remote I/O station

31 - 2 X80 and Quantum drops

Number of distributed equipment

64

Communication module processor capacity

6 Ethernet communication module

16 AS-Interface module

Communication Service

DIO scanner

RIO scanner

Memory description

Expandable flash, 4 GB data storage

Integrated RAM, 10 kB system memory

Integrated RAM, 64 MB program and data

Integrated RAM, 4096 kB HSBY data

Application structure

1 cyclic/periodic master task

1 periodic fast task

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

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

50 Kinst/ms 100 % Boolean

Current consumption

365 mA 24 V DC

MTBF reliability

650000 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)

1 LED (Green) peer processor running (REMOTE RUN)

1 LED (Green) processor ID set to A (A)

1 LED (Green) processor ID set to B (B)

1 LED (Green) processor acting as Primary (PRIM)

1 LED (Green) processor acting as Standby (STBY)

1 LED (Green) I/O values overridden by user (FORCED IO)
1 LED (Green) Hot standby link status (Hsby Diag)

Product Weight
1.872 lb(US) (0.849 kg)
Ordering and shipping details

Category
US1PC3418161
Discount Schedule
PC34

GTIN
3606485440019

Returnability
Yes
Country of origin
FR

Packing Units
Unit Type of Package 1
PCE
Nbr. of units in pkg.

1
Package 1 Height
3.43 in (8.700 cm)
Package 1 Width
6.97 in (17.700 cm)

Package 1 Length
9.84 in (25.000 cm)
Package weight(Lbs)
30.970 oz (878.000 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
12.414 lb(US) (5.631 kg)