

General

Sami MultiNode (PE1293) is a protocol converter designed to connect up to eight different SAMI Star to ABB MasterFieldbus. It consists of a circuit board with three major parts: Power supply, Fieldbus communication and SAMI Star current loop communication.

The Fieldbus communication is made by an i8344 microprocessor and the eight Sami/Sele communication links is handled by a Hitachi H8/532 microprocessor. The two microprocessors are communicating thru a dual port memory.

Dimensions and Mounting

SAMI MultiNode is mounted in the ABB MasterPiece cubicle if there is enough space and if the distance to the converters isn't too long. In all other cases SAMI MultiNode is mounted in an enclosure together with a DSTC 452 modem and a 24V DC supply unit.

SAMI MultiNode is mounted in a special A1-profile with a matching cable duct (order no. 21660559-R) which will fit in a standard 19" frame. Mounting of the A1-profile should be done with cutting screws to provide good earth connection.

Note! The A1-profile has to be mounted upside down compared with the normal placement in ABB MasterPiece.

Data

Auxiliary Power 24V DC , 250mA

Environmental data

Surrounding temperature range:

Operation: +5.+40 degrees C.

Storage: -40.+70 degrees C.

Enclosure: non-enclosed unit

Connection to MasterFieldbus

RS485, 2 Mbps

Cable: FLFR 3 x 2 x 0.34.

Communication, half duplex, ISO-HDLC protocol.

Connection, 8 screw terminal block connector, max 25m.

Connection to SamiStar

Sami Star serial link 20mA current loop

Cable, twisted pair, pair screened, common screened, FKAR-PIG,FLEAK or equal) 2 x 2 x 0,5.

Communication, 9600bps, no parity, 7 bits, 1 stop bit.

Connection, 2x3 screw terminal block connectors, max 50m

Note! This value 50m is a preliminary figure, the possible length should be at least 150m but this has not been tested.

Front view



Connections

MasterFieldbus



SAMI Star current loop

