SIEMENS

# SIMATIC S5

# ET 200U
# Distributed I/O Station

**Manual**

**Edition 03**

**EWA 4NEB 812 6087–02b**

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## Contents of this Manual

This manual describes the IM 318–B slave interface module with order numbers:

- 6ES5 318–8MB**11**
- 6ES5 318–8MB**12**
- 6ES5 318–8M**C11**

### ”318–8MB11”

An interface for SINEC L2–DP with DP Siemens protocol is integrated in the “318–8MB**11**”.

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**Note**

The “318–8MB**11**” module is operated in conjunction with
- COM ET 200 (from version 1.0) and
- IM 308–B (from revision level 1)

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### ”318–8MB12”

The functionality of the “318–8MB**11**” module is a subset of the functions of the “318–8MB**12**”.

Additionally, the “318–8MB**12**” operates in accordance with the PROFIBUS–DP (DIN 19245/Part 3) draft standard, in the following referred to as DP Standard.

The draft standard will be explained in detail in Section 1.3.

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**Note**

A “318–8MB**12**” module can be operated as DP Standard slave (ET 200U(DP Standard) in conjunction with
- COM ET 200 (from version 4.0) and
- IM 308–B from revision level 5 (printed on module) or software version 4.0 (indicated in COM ET 200).

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**“318–8MC11”**

An interface for SINEC L2–DP (DP Standard) and SINEC L2–FMS is integrated in the “318–8M**C11**”.
The “318–8M**C11**” can be addressed via the same bus both with the DP Standard and FMS protocols.

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**Note**

An “318–8M**C11**” can be operated as DP Standard slave in conjunction with
- COM ET 200 (from version 4.0) and
- IM 308–B from revision level 5 (printed on module) or from software version 4.0 (indicated in COM ET 200).

A “318–8M**C11**” module can be operated as an FMS slave on any bus type conforming to the PROFIBUS DIN 19245 standard, Parts 1 and 2.

If the DP and FMS protocols are used on the bus at the same time, a maximum of two DP masters, one FMS master (additional active station) and one programmer are permitted.

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**Notes for Conversion from “8MB11” to “8MB12”**

In the following table, the differences between the 6ES5 318–8MB**12** and the 6ES5 318–8MB**11** modules are listed.

Table 1-1 Differences between the IM 318–B slave interface modules

| Difference | Described in ... |
|---|---|
| Pulling and plugging–in of I/O modules under load voltage is only permitted under defined conditions. | Chapter 3 |
| Depending on whether the “DP Siemens” or the “DP Standard” protocol is used, COM ET 200 requires different address identifiers for the modules. | Table 4-1, Section 4.1.1 and Table 5-1, Section 5.1.1 |
| Different functions of switch 8 (SLOW mode). | Section 4.2.1 and Section 5.2.1 |
| Different behaviour when exiting from the SYSTEM START–UP/ TEST: MODULE SELECTION screen. | Section 4.2 and Section 5.2 |
| Different COM ET 200 screens for:<br>• SYSTEM START–UP/TEST<br>• DIAGNOSTICS | <br>Section 4.2 and Section 5.2<br>Section 4.3 and Section 5.3 |
| The three ET 200U interface modules have different manufacturer identifications. | Section 4.3.3 and Section 5.3.3 |
| Extended diagnostics messages for the station status. | Section 5.3.3 |
| Using COM ET 200, the “422–8MA11” digital input module can now also be entered as 16–channel input module or as 1–channel analog input module. | Table 5-1, Section 5.1.1 |
| Individual input of address IDs. | Section 5.1 |

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