GOSSEN METRAWATT

METRA**HIT** | ASi v 3.0
AS Interface Addressing Device V 3.0

The addressing device offers the following functions for convenient initial start-up and diagnosis of an AS-i bus system:

- Read-out and setting of slave address
  0 to 31 and/or 1A to 31A, 1B to 31B for all AS interface slaves

- Addresses which are already in use can be stored and blocked in order to avoid double addressing

- Voltage measurement on the AS interface line
  and measurement of operating current of an AS-i slave

- Testing of input and output data of digital and analog slaves in accordance with AS interface specification V3.0, including safety-related input slaves

- Configuration of parameters of a slave for test purposes
  and read-back of parameter echo

- Read-out of slave profile (IO, ID, ID2)

- Read-out and setting of ID1 code

- Read-out of the „Identifier" and „Diagnosis" data objects for CTT2 slaves

- Read-out of safety code sequences of safety-related input slaves (ASIsafe)

- Read and write of the cyclical input and output channels of CTT2 slaves

- Storage of complete system configurations (profiles of all slaves) as an addressing aid

General

The METRAHITASi v3.0 is an easy-to-operate addressing and diagnosis device for active AS-i modules and intelligent sensors and actuators in accordance with AS-i version 3.0 including extended addressing mode.

Features

Connection

The METRAHITASi v3.0 is connected to the slaves via cables with an M12 connector (90°) to jack plug or directly to AS-i bus with a special cable.

Display

The high-contrast liquid crystal display (LCD) with primary and sub-displays keeps the user informed about various conditions.
Primary display (8 characters):
– menu function, current data, error conditions

Sub-display (5 characters):
– status displays

– all assigned slave addresses (0 … 31, A, B) within the system

– Selection overview for slave addressing and diagnosis

Two display modes are possible:
Slave data can be displayed in direct mode or in S7 mode.

Diagnosis Functions

- Recognition of reversed polarity and overload

- Measurement of ASI supply voltage

- Error detection with comments

- Display of periphery errors

Memory Functions

- Storage and copying of 4 system profiles

Applicable Regulations and Standards

IEC 61010-1 EN 61010-1 VDE 0411-1	Safety requirements for electrical equipment for measurement, control and laboratory use – General requirements
DIN EN 61326 VDE 0843 Part 20	Electrical equipment for measurement, control and laboratory use – EMC requirements
EN 60529 VDE 0470 Part 1	Test instruments and test procedures – Protection provided by enclosures (IP code)

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Technical Data

Function ASI V=

	Measuring Range	Measuring Accuracy
Voltage	2 … 35 V	±(3.5 % rdg.+ 2 d)
Current (for slaves)	0 … 0.15 A	±(5 % rdg. + 2 d)

Input impedance during voltage measurement: approx. 300 kΩ

Key rdg. = reading, D = digit

Power Supply

Power is supplied by 4 x 1.5 V type AA batteries, IEC LR6 (NEDA15). We recommend high-quality alkaline-manganese batteries for energy-intensive applications. Alternatively, equivalent rechargeable batteries can be used (preferably NiMH).

Automatic shutdown ensues approximately 5 minutes after the last key operation (or approx. 1 minute during active data exchange) in order to extend battery service life.

Electromagnetic Compatibility (EMC)

Interference Emission   EN 61326-1:2013 class B
Interference Immunity   EN 61326-1:2013

Ambient Conditions

Operating
Temperature Range   0 °C … +50 °C
Storage
Temperature Range   −20 °C … +75 °C (without batteries)
Relative Humidity   max. 75 %, no condensation allowed
Elevation   up to 2000 m
Deployment   indoors only

Mechanical Design

Dimensions   84 mm x 195 mm x 35 mm
Weight   approx. 450 g with batteries
Protection   IP 40

M12 Terminal Assignment
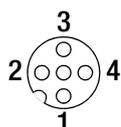
Pin 1   ASI+
Pin 3   ASI−
Pin 2, 4, 5 not in use

Standard Equipment

1   ASI Addressing and Diagnosis Device
1   GH18 protective rubber cover and carrying strap
1   M12 connection cable to jack plug (Z236A)
1   Set of batteries
1   Short-form operating instructions
–   Detailed operating instructions for download on the Internet at:
    www.gossenmetrawatt.com/English/products/metrahit-asi-v30.htm

Order Information

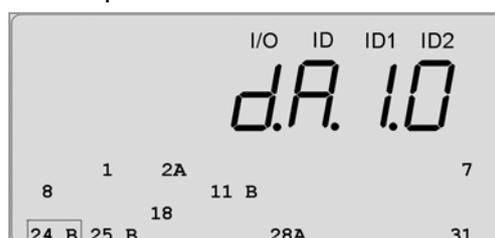| Description	Type	Article Number
ASI addressing and diagnosis device Standard equipment see above	METRAHITASi v3.0	M235J
Hard case for 1 METRAHit and accessories	HC20	Z113A
M12 male connection cable to addressing socket (jack plug) for METRAHIT ASi 3.0, length approx. 1.5 m	KS36A	Z236A
ASi module base with jack	Z231G	Z231G

Display Examples

Display of measured AS-i voltage at the bus

33.8 v
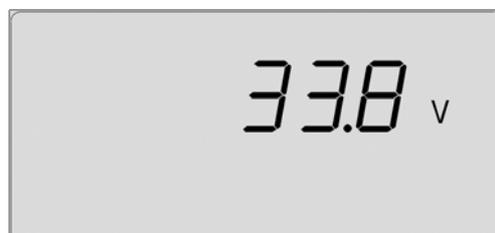
Read-out and setting of a slave address (where 0A → 4B)

SEt 4 B
0A

☐   located address blinks

Read-out of a slave profile

d.A. 1.0   I/O ID ID1 ID2
1   2A   7
8   11 B
18
24 B 25 B   28A   31

Application, Addressing of ASi Slave

M235J

M12

Pin 1 ASI+
Pin 3 ASI-
Pin 2, 4, 5: not connected

SLAVE

Z231G[2]

AS-i Slave

Z236A[1]

[1] Lieferumfang
Scope of supply
Fournitures
Entità della fornitura
Alcance suministro
Escopo de fornecimento

[2] Option
optional
en option
opzionale
opción
opcional
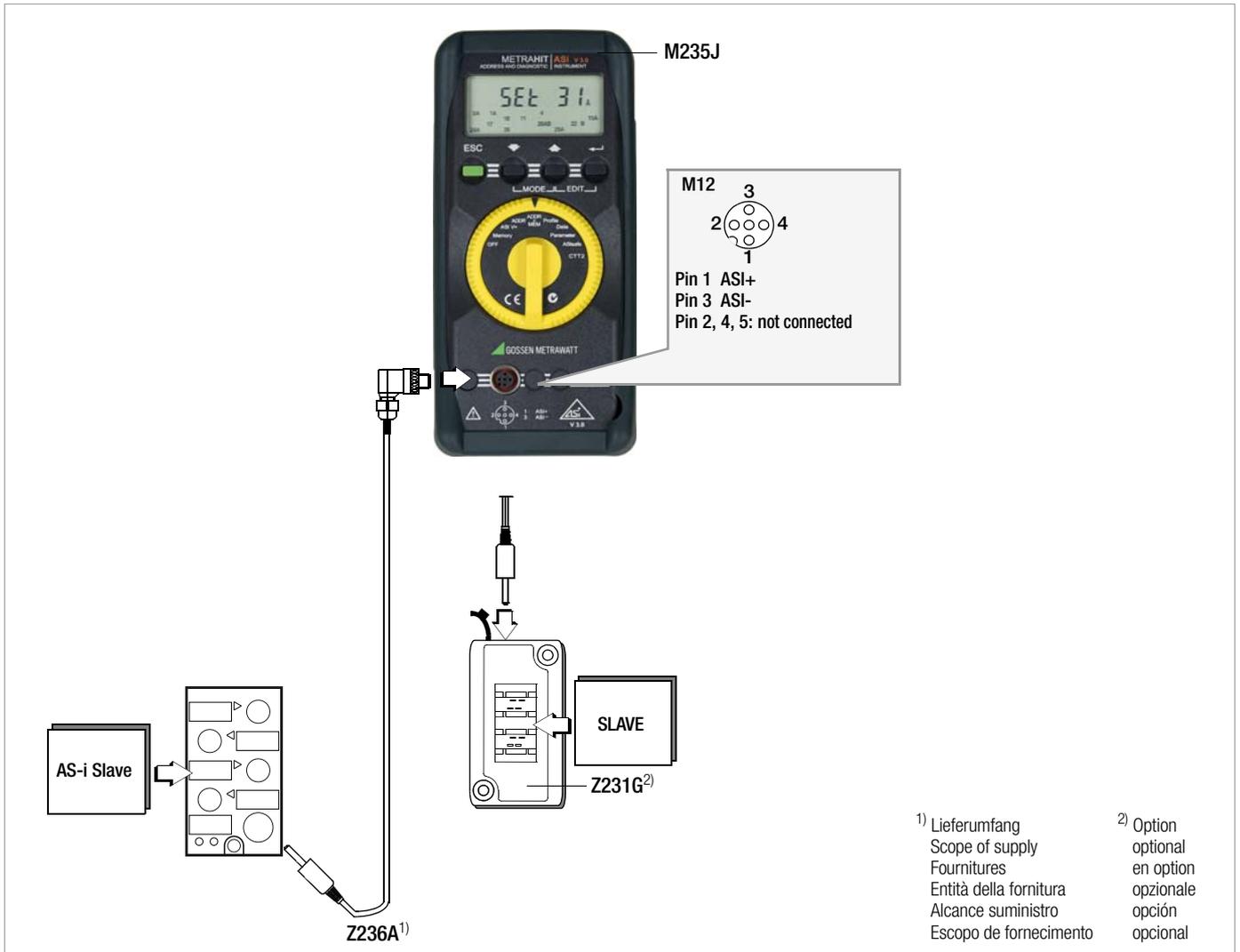
METRAHIT ASi v3.0
AS Interface Addressing Device V 3.0

Application, Connection of AS-i System
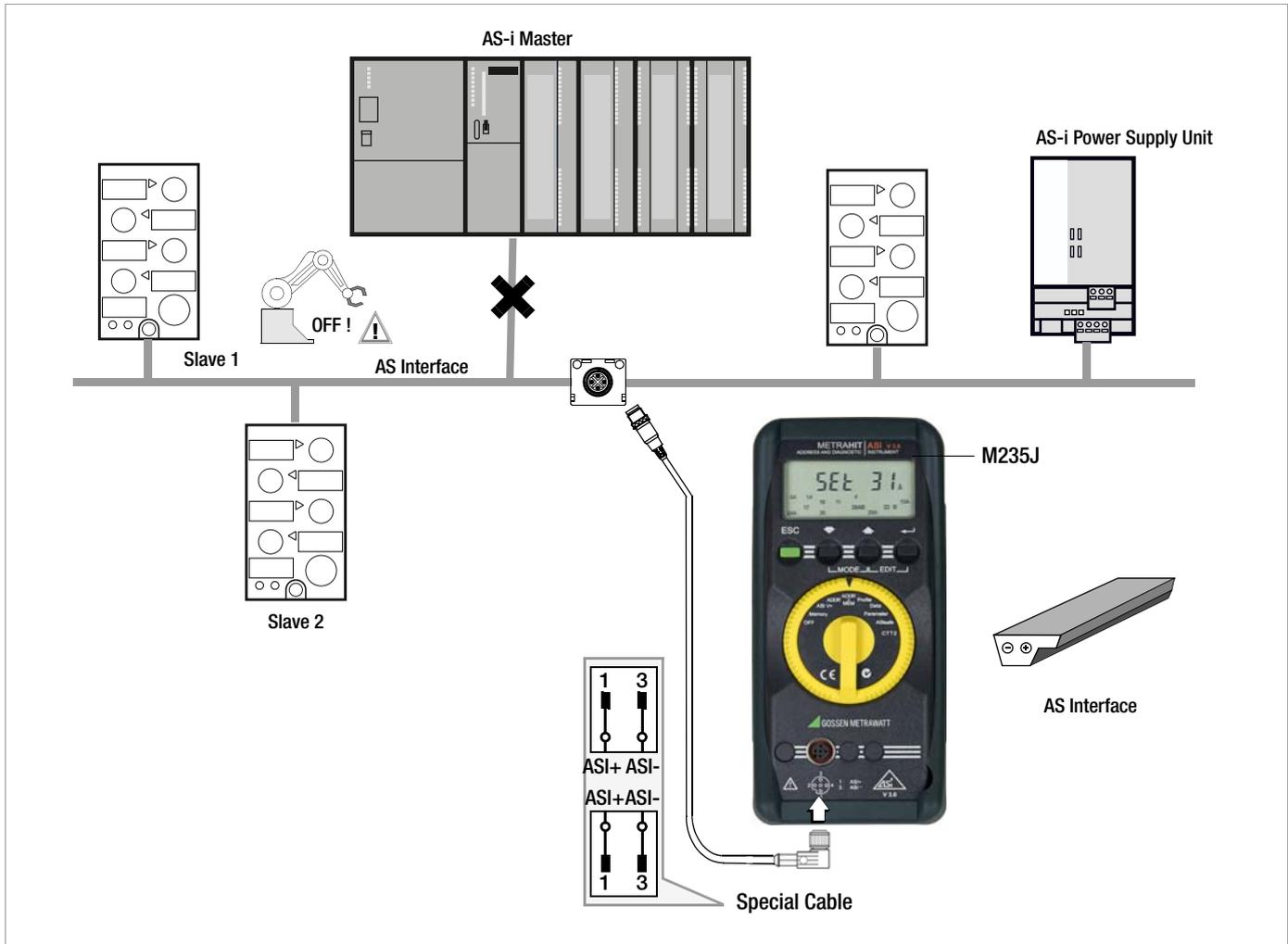
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