

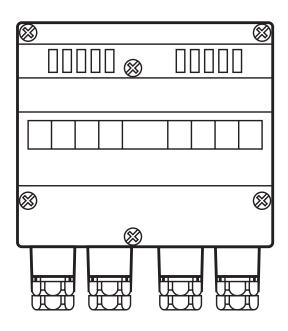
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Operating instructions AS-i universal module

ecomat 300°

AC2035

UK



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1 Preliminary note

- Instructions
- Reaction, result >
- Important note Non-compliance may result in malfunction or interference.

2 Safety instructions

Please read the operating instructions prior to set-up of the device. Ensure that the product is suitable for your application without any restrictions.

- The unit complies with the relevant regulations and EC directives.
- Improper or non-intended use may lead to malfunctions of the unit or to unwanted effects in your application.
- Installation, electrical connection, set-up, operation and maintenance of the unit must be carried out by qualified personnel authorised by the machine operator.

3 Functions and features

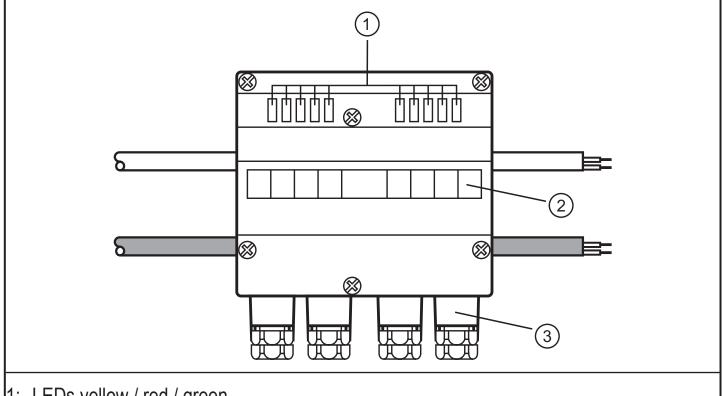
The AS-i module operates as a slave with bidirectional data transfer in the AS-i network (AS-i profile: S7.F.F). It connects 4 sensors (2-wire sensors or pnp 3-wire sensors) and 4 actuators (pnp) with the AS-i master.

- Maximum number of modules per master: 31
- Current supply from the AS-i system, a total of 200 mA per module
- Output current: 2 A per channel, 4 A per module at 24 V DC ± 15 %
- Watchdog: If the connection to the master is interrupted, the 4 outputs are switched off.
- Sensor/actuator connection via PG7 cable glands and cage clamps
- AS-i and external power connection via the FC-E module lower part

4 Installation

- ▶ Disconnect power before installation.
- ▶ Mount the module on a wired lower part of the AS-i network, tightening torque 0.8 Nm.

5 Operating and display elements



- 1: LEDs yellow / red / green
- 2: Label
- 3: PG7 cable gland

6 Addressing

▶ Plug the module into the addressing unit. Assign a free address between 1 and 31, on delivery the address is 0.

7 Electrical connection

- The unit must be connected by a qualified electrician.
- The national and international regulations for the installation of electrical equipment must be adhered to.
- ▶ Disconnect power.
- Connect the unit.

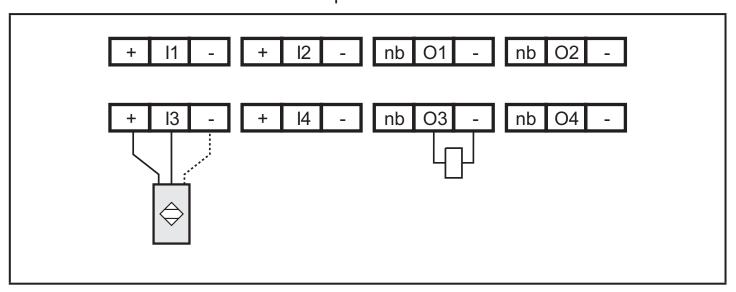
- ▶ Pass the connection cables through the cable glands and connect the wires to the cage clamps.
- The external voltage must have a safe separation to PELV. Do not connect the inputs with external potential.

7.1 Terminal connection and assignment of the data bits

Terminal connection	Input 1		Input 2			Input 3			Input 4			
	+	IN	-	+	IN	-	+	IN	-	+	IN	-
Data bit	D0			D1			D2			D3		
Input	l+	I1	 -	+	12	-	+	13	 -	+	14	l-
Terminal connection	Output 1			Output 2			Output 3			Output 4		
	nb	Out	-	nb	Out	-	nb	Out	-	nb	Out	-
Data bit	D0			D1			D2			D3		
Output	nb	01+	01-	nb	02+	02-	nb	O3+	O3-	nb	04+	04-

nb = not used

► Connect the actuators with the outputs O1...O4.



nb = not used

Parameter bits P0

Watchdog for all outputs activated* / deactivated (* default), P1...P3 are not used.

8 Operation

Check whether the unit operates correctly. Display by LEDs:

- LED AUX green lights: external voltage ok
- LEDs yellow light: inputs/outputs switched
- LED PWR/FAULT red lights: AS-i communication error, slave does not participate in the "normal" exchange of data, e.g. slave address 0
- LED PWR/FAULT green lights: voltage supply via the AS-i network ok
- LED PWR/FAULT alternately flashes green/red: peripheral fault, e.g. sensor supply overloaded or shorted

9 Maintenance, repair and disposal

The operation of the unit is maintenance-free.

After use dispose of the unit in an environmentally friendly way in accordance with the applicable national regulations.

10 Technical data

Technical data and further information at www.ifm.com