AS-i Slave Evaluation Board

Bihl + Wiedemann

Automatisierungstechnik

AS-i Slave Evaluation Board

Article no. BW1057
on basis ASI3+

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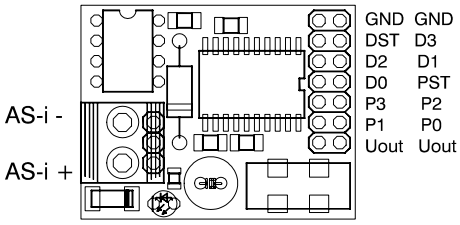
The AS-i Slave Evaluation Board can be connected to the AS-i circuit directly and without any additional hardware. It is a complete AS-i slave. Voltage supply is provided by the AS-i line.

The AS-i Slave Evaluation Board is suitable for **experiments** and **test setups** and fully able to function without additional hardware. Linked to an AS-i network, it enables the AS-i Master to set parameter outputs and data outputs as well as to read data inputs. All ID-codes and IO-codes can be adjusted by a socketed EEPROM. All important pins of the AS-i slave IC are led onto one pin header:

- decoupled U_{out} (approx. 24 V, maximal 35 mA)
- data pins D0 … D3
- parameter outputs P0 … P3
- strobe outputs for data and parameter ports

Technical data	
Operating current	approx. 20 mA (without external user aplication)
Operating voltage	AS-i voltage 30 V DC
Function display	green power-on LED
Diemensions (L, W, H)	33,7 mm, 26,7 mm, 15 mm



The AS-i slave IC´s configuration is programmed in the EEPROM. On delivery, the whole EEPROM is filled with 0 (address=0, configuration=0, 4 data inputs):

EEPROM Adr.	D7	D6	D5	D4	D3	D2	D1	D0
0	0	0	0	AS-i address				
1	0	0	0	AS-i address				
2	ID code				IO configuration			
3	ID code				IO configuration			

Programming:

Default setting
IO Code 0
ID Code 0

The parameters in the addresses 0 and 1 and in the addresses 2 and 3 have to be identical. The IO code data can be easily altered. For that purpose, the data in the socketed EEPROM have to be reprogrammed (in an external EEPROM programming device).

IO-Code	D0	D1	D2	D3
0_{hex}	input	input	input	input
1_{hex}	input	input	input	output
2_{hex}	input	input	input	bidirectional
3_{hex}	input	input	output	output
4_{hex}	input	input	bidirectional	bidirectional
5_{hex}	input	output	output	output
6_{hex}	input	bidirectional	bidirectional	bidirectional
7_{hex}	bidirectional	bidirectional	bidirectional	bidirectional
8_{hex}	output	output	output	output
9_{hex}	output	output	output	input
A_{hex}	output	output	output	bidirectional
B_{hex}	output	output	input	input
C_{hex}	output	output	bidirectional	bidirectional
D_{hex}	output	input	input	input
E_{hex}	output	bidirectional	bidirectional	bidirectional
F_{hex}	F_{hex}: no valid configuration			

The ID-Codes for the different types of slaves have to be asked for at the AS-International Association