AS-i Balance Controller

Bihl+Wiedemann
THE AS-INTERFACE MASTERS

AS-i Balance Controller

AS-i connection for a 6-wire load cell

Weights directly via AS-i

Tara via AS-i parameter

CE

Article no. BW1465

The AS-i Balance Controller allows the connection of a load cell to AS-i. The weight will be transfered as 16 bits analog value . Via AS-i the weight is available to nearly all controls as 16 bits value. The setting and deleting of tara is made with the help of 2 AS-i parameters. The tara value is stored remanent.

The 6-wire load cells are connected directly via heavy gauge terminals onto a cage clamp block in the AS-i load cell controller. The AS-i load cell controller is located in a robust IP65 housing and can so be mounted near to the load cell. Longer wires

between cells and controller can be avoided. The calibration is made for the BW1465 with the help of a simply Windows calibration software and a special calibration master (article no. BW1728). With the calibration on 2 points of reference the average value of 50 measurements is formed. The output for a reference weight can be set likewise simply with the help of the Windows software. As long as the scales controller was not calibrated on a load cell, the expenditure of the measured values takes place in mV/V (1 mV/V corresponds to 5000 decimally).

Article no.	BW1465
Inputs	1 load cell
Sensor supply	via AS-i
Resolution	16 bit
Range of values	adjustable
AS-i Profile	7.3
ID Code	3_{hex}
ID2 Code	C_{hex}
IO Code	7_{hex}
Displays	
LED yellow (CAL)	calibration
LED green (IN)	load cell connected
LED green (PWR)	AS-i voltage
LED red (FAULT)	AS-i communication error, peripheral fault
Operating current	< 80 mA
Operating voltage	AS-i (30 V DC)
Voltage of insulation	$\geq$ 500 V
EMC	according to EN 50 081-2, EN 61 000-6-2
Ambient operating temperature	0°C … +70°C
Storage temperature	-25°C … +85°C
Housing	housing for DIN-rail mounting
Case connector	2*M16x1,5, 1*M12x1,5
Dimensions (L, W, H)	90 mm, 80 mm, 70 mm
Protection category (DIN 40 050)	housing

Accessories:
Windows software for calibration

Calibration Master (art. no. BW1728)

AS-i substructure module to connect 2 AS-i flat cable (art. no. BW1180)

AS-i substructure module to connect 2 AS-i round cable (art. no. BW1182)
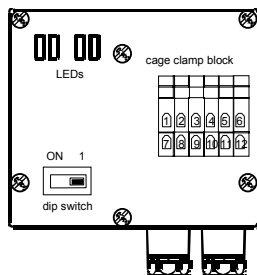
Software "AS-i Control-Tools" (art. no. BW1203)

Software "AS-i Control-Tools" with serial transmission cord for AS-i Master in Stainless Steel (art. no. BW1602)

AS-i Parameter	
0	Set tara
1	Delete tara
B	Filter 4 s
C	Filter 3 s
D	Filter 2 s
E	Filter 1 s
F	No filter

Connections

Pin	Connection
1, 7	Supply +
2, 8	Sensor line +
3, 9	Output +
4, 10	Output -
5, 11	Sensor line-
6, 12	Supply -

Switch 1:   Normal operation
Switch ON: Calibration (only BW1465)