

SPATZBS-01 I/O Terminal

The **SPATZBS-01** I/O terminal is ideal for use in combination with any **SPATZ** at manual workplaces, in laboratories, when setting up a machine and whenever the welding process is controlled manually rather than by a higher-level PLC.

All important welding process functions of the **SPATZes** can be controlled with the **SPATZBS-01** I/O terminal. Assignment of the individual functions to the inputs and outputs of the **SPATZ** power sources is user-definable. Simple identification of the functions is carried out by sliding labelling strips into the pockets provided behind the front foil, where they are protected from dirt.

A programme selection enables setting of all 63 programmes of the **SPATZes**. The welding programme which is currently in use is indicated on a 2-digit seven-segment display, and can be altered by means of pushbuttons. The programme number remains stored in the memory when the machine is switched off.

The status of 6 digital outputs of the power sources are indicated on the **SPATZBS-01** via LED indicator lamps of different colours. This provides a swift overview of the welding process, the status of the last weld, the levels of electrode life and error counters or the availability of the welding machine.

A total of 6 outputs are available to control the digital inputs of the **SPATZes**. 3 of these outputs are designed as pushbuttons and can be assigned to functions such as 'Start' or 'Error Reset'. The remaining outputs are designed as switches. These outputs are assigned functions such as 'Weld with current'. The state of these outputs is shown by LED indicator lamps.

It is also possible to assign the inputs and outputs of the **SPATZBS-01** to any initiators and actuators in the entire welding machine, independent of the welding power sources. In the



set-up mode as an example, it is often necessary to activate the prestroke or working stroke valves manually, in order to correct the electrode geometry or to carry out other adjustment tasks. Due to this, two of the bistable outputs are designed for loads of up to 40 W.

Voltage is supplied directly via the welding controller or another 24 V DC voltage which is available at the site.

Technical data

Number of digital inputs	6
Number of digital outputs for program selection	6
Number of digital outputs with push button function, 100 mA	3
Number of digital outputs with switching function, 1.2 A	2
Number of digital outputs with switching function, 100 mA	1
Power supply	24 V DC (external or SPATZ control)
Permissible voltage range	18 - 36 V DC
Reverse voltage protection	yes
Internal current consumption (without output functions)	15 mA
Max. current consumption of the output functions	3.0 A
Protective system	IP56, NEMA 12
Dimensions (L x W x H)	170 x 110 x 45 mm 6.69 x 4.33 x 1.77 in
Cable inputs	1 x PG 13,5, 2 x PG 9
Weight	0.5 kg, 1.1 lb

