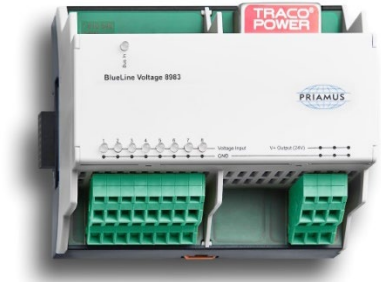


BlueLine Voltage Input Module Type 8983A

- Extension module with analog inputs for BlueLine systems
- Recording of voltage signals for the BlueLine systems
- Galvanic isolation against Bus-In / Out
- Each device is galvanically isolated by separate power supply
- Supply of independent sensors available (e. g. pressure transmitters)
- Connection technology via spring terminal blocks with separate GND per Input / Output
- Clearly arranged status display via two-colour LEDs
- Protected against short-circuit, overvoltage and reverse polarity
- Mechanically robust, space-saving and cascable
- Wireless connection of adjacent I/O modules via top hat rail



Description

The BlueLine Voltage Input Module is an extension module with analog inputs for BlueLine systems.

The BlueLine Voltage Input Module is used for simple recording of voltage signals as they are usually provided by injection molding machines in the form of 0 ...10 V output signals. These are usually reference and actual signals of the adjusted machine parameters such as hydraulic pressure, screw position, injection rate etc.

The voltage signals are measured in the FILLCONTROL software as analog signals and documented as quality parameters or used for control purposes.

The BlueLine Voltage Input Module is also suitable for independent sensors such as pressure transmitters. In order to generate a measuring signal, the module provides the required supply voltage of 24V.

The BlueLine Voltage Input Module has been developed for installation in the control cabinet and is connected to the I/O Master by the Bus-In connection. The following I/O Expanders or I/O Bus Interfaces are connected via the delivered top hat rail bus. External cabling between the adjacent I/O modules is not necessary. To enable bus signal transmission for remotely located bus modules, the I/O Bus Interface type 8982A is used as a connection between the top hat rail bus and the Hybrid bus connecting cable type 1280A.

Technical Data

General

Property	Specification
Dimension (L x W x H)	107.6 x 61 x 90 mm
Weight	0.223 kg
Working temperature range	0 ... 60 °C
Storage temperature range	-40 ... 80 °C
Conductor connection technology	Spring terminal blocks
Hot-plug	Yes
Assembly	Top hat rail
ESD protection	4 kV
RoHS-compliant	Yes

Power supply

Property	Specification
Voltage range	18 ... 36 V
Standby current consumption	< 100 mA
Max. power consumption	< 10 W
Power supply via bus	Yes
Galvanically isolated against Bus In / Out	Yes
Galvanically isolated against Inputs / Outputs	No

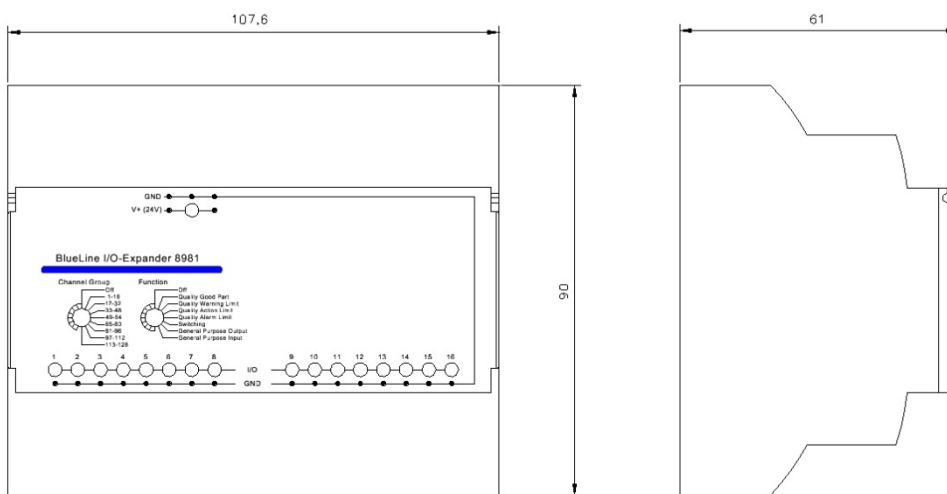
Inputs

Property	Specification
Number of voltage inputs	8
Measuring range	± 40 V
Resolution	16 bit
Sensitivity	1.2 mV / bit
Frequency response	0 ... 2000 Hz
Max. voltage	± 400 V
Input impedance	> 1 MΩ
Measuring error	0.1%
Status LED color in case of positive voltage	green
Status LED color in case of negative voltage	orange

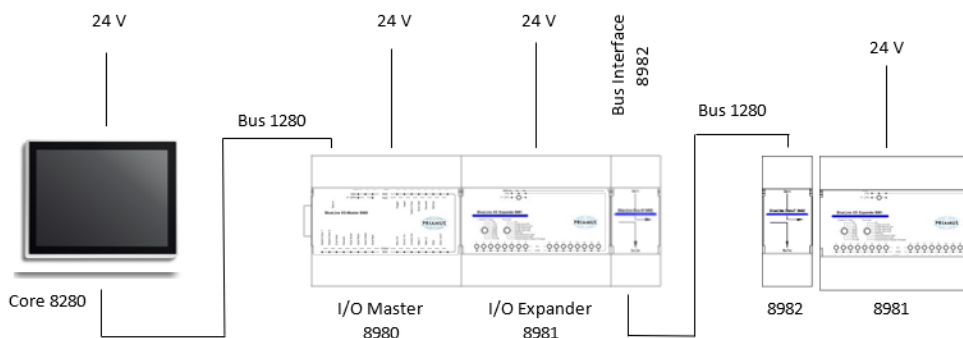
Stromversorgungsausgang

Property	Specification
Voltage	24 V
Max. load	250 mA

Dimension (in mm)



Wiring Example in the Bus



Accessories

Type number	Article
1041Ax	BlueLine connection cable for cavity pressure sensors Single-pin, with plastic sheath Both sides: Fischer connector type S 102 pos. TRIAX
1043Bx	BlueLine extension cable for cavity pressure sensors With metal sheath Side 1: Fischer connector type S 102 pos. TRIAX Side 2: Fischer connector type KBE 102 neg. TRIAX
1045Bx	BlueLine connection cable for cavity pressure sensors Multi-pin, with plastic sheath Side 1: Fischer connector type S 104 neg., 16-pin (Code 1) Side 2: 4 × Fischer connector type S 102 pos. TRIAX
1047Ax	BlueLine connection cable for cavity pressure sensors Multi-pin, with plastic sheath Side 1: Fischer connector type S 104 neg., 16-pin (Code 1) Side 2: Fischer connector type S 102 pos. TRIAX
1049Bx	BlueLine connection cable for cavity pressure sensors Single-pin, with plastic sheath Both sides: Fischer connector type S 102 pos. TRIAX
1054Bx	BlueLine connection cable for cavity pressure sensors Multi-pin, with plastic sheath Both sides: Fischer connector type S 104 neg., 16-pin (Code 1)
1141Ax	BlueLine connection cable for cavity temperature sensors Single-pin, with plastic sheath Both sides: Fischer connector type S 101 pos. TRIAX
1142Bx	BlueLine extension cable for cavity pressure sensors Single-pin, with metal sheath Side 1: Fischer connector type S 101 pos. TRIAX Side 2: Fischer connector type KBE 101 neg. TRIAX
1144Ax	BlueLine connection cable for cavity temperature sensors Multi-pin, with plastic sheath Both sides: Fischer connector type S 104 neg. 19-pin (Code 2)
1145Ax	BlueLine connection cable for cavity temperature sensors Multi-pin, with plastic sheath Side 1: Fischer connector type S 104 neg. 19-pin (Code 2) Side 2: Fischer connector type S 101 pos. TRIAX

Type number	Article
1147Bx	BlueLine connection cable for cavity temperature sensor Multi-pin, with plastic sheath Side 1: Fischer connector type S 104 neg. 19-pin (Code 2) Side 2: 4 x Fischer connector type S 101 pos. TRIAX
1149Bx	BlueLine connection cable for cavity temperature sensors Single-pin, with metal sheath Both sides: Fischer connector type S 101 pos. TRIAX
1194A-8T	BlueLine multi-channel connecting box for temperature signals For connecting a maximum of 8 cavity temperature sensors
1195A-8p	BlueLine multi-channel connecting box for pressure signals For connecting a maximum of 8 cavity pressure sensors
5070A-2p2T- VARAN	BlueLine pressure and temperature amplifier VARAN Pressure: 2 x Single-channel connectors Fischer type 102 TRIAX / BNC Temperature: 2 x Single-channel connectors Fischer type 102 TRIAX
5080A-4p	BlueLine amplifier for cavity pressure signals with 4 channels 4 x single-channel connectors Fischer type 102 TRIAX
5080A-16p	BlueLine amplifier for cavity pressure signals with 16 channels 2 x multi-channel connectors Fischer type 104, 16-pin
5080A-4T	BlueLine amplifier for cavity temperature signals with 4 channels 4 x single-channel connectors Fischer type 101 TRIAX
5080A-16T	BlueLine amplifier for cavity temperature signals with 16 channels 2 x multi-channel connector Fischer type 104, 19-pin
8280C	BlueLine Core Control unit for monitoring and controlling of the injection molding process
8911A	BlueLine signal tester set Test device for checking cavity temperature and cavity pressure sensors. Complete set with numerous accessories in foam case
8952A	BlueLine signal tester Test device for checking cavity temperature and cavity pressure sensors.
8980C	BlueLine I/O Master Basic module for transmitting control signals between the injection molding machine and the BlueLine system.
8981A	BlueLine I/O Expander Extension module for transmitting control signals between the injection molding machine and the BlueLine system.

Type number	Article
8982A	BlueLine Bus Interface Coupling module between I/O modules for mounting on top hat rail bus, for transmitting control signals between the injection molding machine and the BlueLine system.
8984A	BlueLine control cabinet Control cabinet with transparent front door for maximum 64 switching signals With 1 BlueLine I/O Master type 8980C and optionally 1–4 BlueLine I/O Expander type 8981A
8985A	BlueLine control cabinet Control cabinet with transparent front door for maximum 96 switching signals with 1 BlueLine I/O Master type 8980C and optionally 1–6 BlueLine I/O Expander type 8981A
9015A	BlueLine inductive switch for easy starting and measuring
9016A	BlueLine power supply unit for: - BlueLine amplifiers types 5080A - BlueLine Core type 8280C
9080A	BlueLine top hat rail bus For mounting of several interconnected BlueLine devices such as I/O Master or I/O Expander