Digital Panel Meter DPM 715

Display:	3 1/2 digit
Displaydimension:	red LED 25,4 mm
Zero:	automatic zero point correction
Polarity:	automatic polarity - sign
Meas. Rate:	2.5 Measurements per sec.
Decimal Point:	selectable setting
Plasticcase:	ABS black
Overload Meas.:	10 times of meas. Voltage range, max 250V
Overload Meas.:	2 times of meas. Current range
Supply Voltage:	230 Volt AC, 3 VA
Common Mode:	CMRR better 80dB
Operating Temp.:	-10°C…+50°C
Protection Index:	IP 50 Front
	IP 00 Rare acc. DIN 40050
Connector Type:	Lift Clamps
Front Panel:	H x W = 72 x 144 mm
Panel cut-out:	H x W = 66 x 136 mm
Mounting Depth:	D = 135 mm

Mechanical Dimensions:
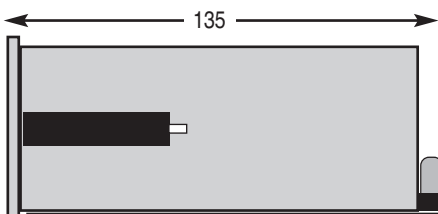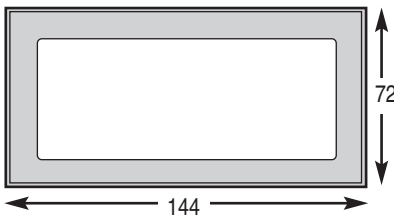
Setting the Decimal Point

The decimal point is setable with jumper on the top side of the PCB.
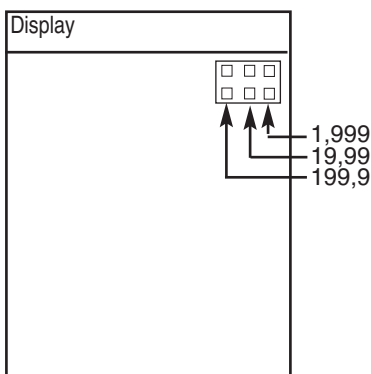
DC-Voltage Type 725-001 … 725-006

Meas. instrument with full +/- range from -1999 to +1999 digits. Accuracy class 0.1% +/- 1 digit from measuring value. Measuring input terminals 1 (Minus) and 2 (Plus). Supply voltage terminals 15 and 17.

## AC-Voltage Type 725-011 … 725-016

Meas. instrument with integrated rectifier. Meas. display is in 'U eff' calibrated. Frequency range DC to 100Hz. Accuracy class +/-0.5% +/- 2 digits from measuring value. Measuring input terminals 1 and 2. Supply voltage terminals 15 and 17.

DC-Current Type 725-020 … 725-025

Meas. instrument with full +/- range from -19999 to +19999 digits. Accuracy class 0.2% +/- 1 digit from measuring value. Internal voltage drop max. 200mV. Measu-ring input terminals 1 (Minus) and 2 (Plus). Supply voltage terminals 15 and 17.

AC-Current Type 725-030 … 725-035

Meas. instrument with integrated rectifier for. Meas. display is in 'I eff' calibrated. Frequency range DC to 100Hz. Accuracy class +/-0.5% +/- 2 digits from measuring value. For current measurements a 200mV range shunt is used with the deci-mal point set accordingly. Example: Shunt 20A/200mV. The decimal point will be set to 19.99. Measuring input terminals 1 and 2. Supply voltage terminals 15 and 17.
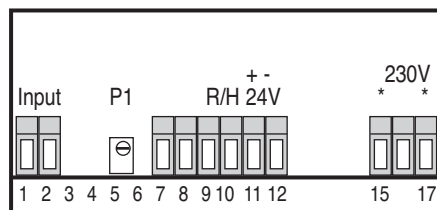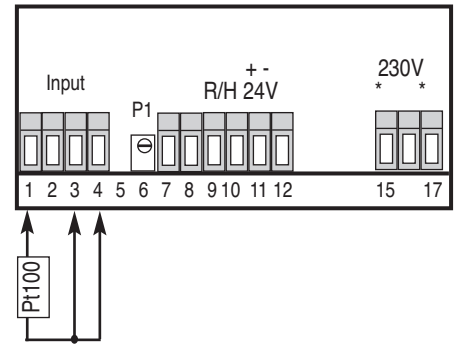

PT100 Temperature 2-wire
Type 725-050/-051

Temperature measuring device for PT100 sensor according to DIN 43760. The models are calibrated for a line resistance of 10 Ohm. Line resistance < 10 Ohm compensatable with Pot. P2. Maximum measu-ring current 1.5mA. Accuracy: 0.1% +/-1 digit of the meas. value. Range B1: -100.0°C ---+199.9°C, resolution 0.1 Kelvin. Range B2: -100°C … +750°C, resolution 1 Kelvin. Sensor terminals 2 and 3. Supply voltage terminals 15 and 17. Analog output in mV/°C on terminals 7 (Minus) and 8 (Plus).
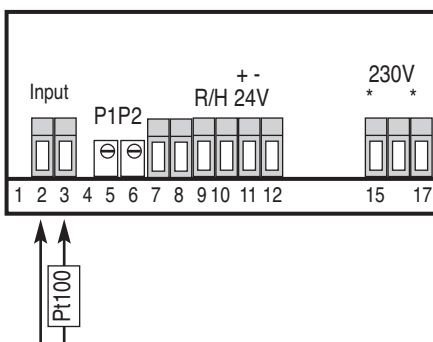
PT100 Temperature 3-wire
Type 725-052/-053

Temperature measuring device for PT100 sensor according to DIN 43760. With these models the line resistance is compensated automatically. Maximum measuring current 1.5mA. Accuracy: 0.1% +/-1 digit of the meas. value. Range B1: -150.0°C … +199.9°C, resolution 0.1 Kelvin. Range B2: -150°C … +750°C, resolution 1 Kelvin. Sensor terminals 1, 3 and 4. Supply voltage terminals 15 and 17. Analog output in mV/°C on terminals 7 (Minus) and 8 (Plus).


PT100 Temperature 4-wire
Type 725-054/-055

Temperature measuring device for PT100 sensor according to DIN 43760. With these models the line resistance is compensated automatically. Maximum measuring current 1.5mA. Accuracy: 0.1% +/-1 digit of the meas. value. Range B1: -150.0°C …+199.9°C, resolution 0.1 Kelvin. Range B2: -150°C … +750°C, resolution 1 Kelvin. Sensor terminals 1, 2 and 3, 4. Supply voltage terminals 15 and 17. Analog output in mV/°C on terminals 7 (Minus) and 8 (Plus).
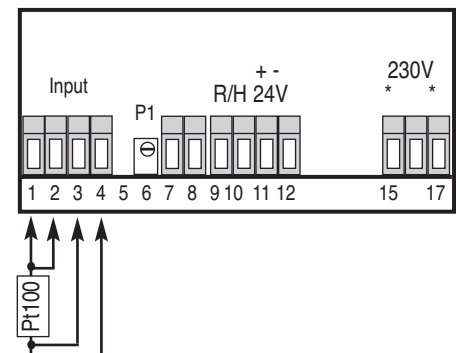
NiCrNi Temperature Type 725-060/-061

Temperature measuring device for NiCrNi sensor according to DIN 43710 with internal temperature compensation. Accuracy: 1% +/-4 digits of the meas. value. Range B1: 0.0°C … +199.9°C, resolution 0.1 Kelvin. Range B2: 0°C … +1300°C, resolution1 Kelvin. Measuring input terminal 3 (red line of sensor) and terminal 4 (green line of sensor). Supply voltage terminals 15 and 17. Analog output in mV/°C on terminals 7 (Minus) and 8 (Plus).
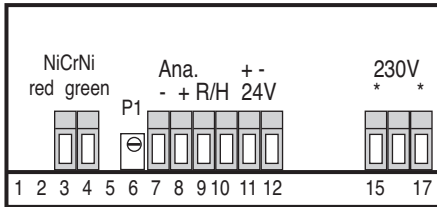
FeCuNi Temperature Type 725-070

Temperature measuring device for FeCuNi sensor according to DIN 43710 with internal temperature compensation. Accuracy class: +/-1.5% +/-4 digits of the meas. value. Range B1: -50°C … +600°C, resolution 1 Kelvin. Measuring input terminal 3 (red line of sensor) and terminal 4 (blue line of sensor). Supply voltage terminals 15 and 17. Analog output in mV/°C on terminals 7 (Minus) and 8 (Plus).
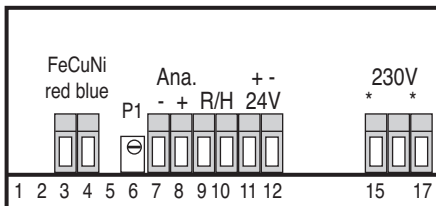
Special Measuring Ranges Type 725-008/-009 and 725-027/-029

These models provide for standard voltage- and currentsignals displays for different values. The ranges are set at factory site according to customer order and a zero point shift is indicated on the device label. Measu-ring input terminals 1 (Minus) and 2 (Plus). Supply voltage terminals 15 and 17. Type 725-008/0-10V: Accuracy 0.1% +/- 1digit from meas. value. Display range from 0 to customer value. Type 725-009/0-10V: Accuracy class 0.1% +/- 1digit from meas. value. Display range from + to - customer value. Type 725-027/0-20mA: Accuracy 0.2% +/- 1 digit from meas. value. Display range from 0 to customer value. Type 725-028/0-20mA: Accuracy 0.2% +/- 1 digit from meas. value. Display range from + to - customer value. Type 725-029/4-20mA: Accuracy 0.2% +/- 1 digit from meas. value. Display range from + to - customer value.
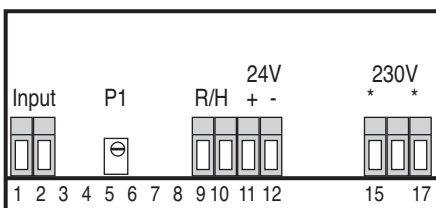
Voltage output 24V DC

Voltage output to supply external sensors with galvanic separated 24V 30mA. Voltage is available at terminal 9 (Minus) and 10 (Plus).

Run-Hold Function

Run-Hold: The measuring device runs its measuring cycle up to the end and holds the displayed value as long as the Run-Hold terminals are connected with each other.

Option: Dimension Display Type 725-900

A customer selected dimension display is placed inclusive illuminated field at the right side behind the front panel. The illuminated field holds a negative film with the desired dimension.

Option: AC Supplies Type 725-105/-107

On selected option a transformer with the respective primary voltage will be mounted and indicated on the device label (galvanic separation).
Order No.: 725-105 Input voltage 115V/AC. Order No.: 725-107 Input voltage 24V/AC.
These types do not provide the 24V Voltage output.

Safety Precautions

Employing these instruments, regulations for working with high voltage equipment, as well as any Professional Trade Association regulation for working with electrical appliances and installations have to be observed.

CE-Guidelines

Meets the EMV Guideline (89/336/EWG) and the German EMV ruling by applying the Basic Standard EN 50081/ EN 50082. Meets the Low Voltage Guideline (73/23/EWG) by applying Product Standard EN 61010.

Guarantee Regulations

Regulations by law apply for guarantee within 6 month. All equipment is factory tested and calibrated. Excluded from the guarantee are normal wear and tear, defects due to misuse, negligence, chemical exposure, mechanical stress as well as equipment, which has been modified, re-labeled or otherwise altered or if attempts to repair have been made. All guarantee claims are subject to our scrutiny and approval.

Service

We are glad that you decided on an instrument from our product range. If there are what so ever any defects, please send the instrument (postage paid) to your distributor. For technical information contact us via E Mail: **info @ schwille.de**
Technical changes reserved.