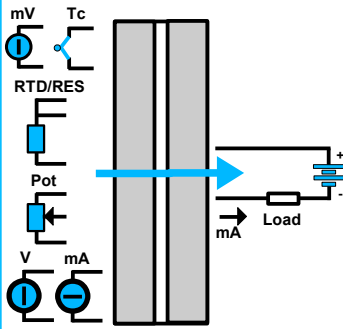




DIN Rail Signal Transmitter
Phone: +1 561 779 5660 - e-mail: datexel@datexel.com- www.datexel.com

FEATURES

- Universal configurable input for: mV, Tc, RTD, Res, Potentiometer, V and mA
- Configurable current output from 4 to 20 mA
- Configurable by dip-switch or PC
- High accuracy
- On-field reconfigurable
- Galvanic isolation at 1500 Vac
- EMC compliant – CE mark
- Suitable for DIN rail mounting in compliance with EN-50022 and EN-50035



Universal isolated transmitter configurable by Dip-Switch or PC
DAT4535



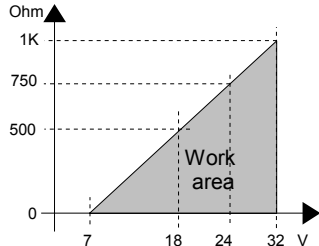
GENERAL DESCRIPTION

The universal isolated transmitter DAT4535 is able to measure and linearise voltage, current and resistance signals, potentiometers and the standard thermocouples and RTDs with, if required, the cold junction compensation and the wires compensation. In function of programming, the measured values are converted and transmitted on the 4÷20 mA current loop. The device guarantees high accuracy and performances stability both versus time and temperature. The programming is made by the dip-switch located in the window on the side of the enclosure. By means of dip-switches it is possible to select the input type and range without recalibrate the device. Moreover, by Personal Computer the user can program all of the device's parameters for his own necessity. **The terminals of the current signal on input side must be only connected to active current loop.** The 1500 Vac galvanic isolation eliminates the effects of all ground loops eventually existing and allows the use of the transmitter in heavy environmental conditions found in industrial applications. It is housed in a plastic enclosure of 12.5 mm thickness suitable for DIN rail mounting in compliance with EN-50022 and EN-50035 standards.

USER INSTRUCTIONS

The transmitter DAT 4535 must be powered by a direct voltage between 7 to 32 V and applied to the terminals P(+V) and O (-V) or to the terminals N(+V) and M (-V). The 4÷20 mA output signal is measurable in the power loop as shown in the section "Output/Power supply connections"; Rload is the input impedance of instruments on the current loop; to obtain a correct measure, the value of Rload will be calculated as function of the power supply value (see section "Technical specification – Load characteristic"). The input connections must be made as shown in the section "Input connections". To configure and install the transmitter refer to sections "Programming", "Configuration by dip-switches", "Dip-switches configuration tables" and "Installation Instructions".

TECHNICAL SPECIFICATIONS (Typical @ 25 °C and in nominal conditions)

INPUT				Linearity (1)		POWER SUPPLY						
Input type	Min	Max	Min. Span	Tc, RTD, Pot mV, V, mA	± 0.1 % f.s. ± 0.05 % f.s.	Supply voltage	7 .. 32 Vdc					
TC (CJC int./ext.)				Input impedance	TC, mV Volt mA	Reverse polarity protection	60 Vdc max					
	J	-200°C	1200°C			100°C	Load characteristic - Rload (maximum load value on current loop per power supply value)					
	K	-200°C	1300°C			100°C						
	S	0°C	1750°C			400°C						
	R	0°C	1750°C			400°C						
	B	0°C	1850°C	400°C								
	E	-200°C	1000°C	100°C								
	T	-200°C	400°C	100°C								
	N	-200°C	1300°C	100°C								
	Voltage				RTD excitation current	RTD,Res	400 uA					
mV		-100 mV	+90 mV	5 mV								
mV		-100 mV	+200 mV	10 mV								
mV		-100 mV	+800 mV	20 mV								
Volt	-10 V	10 V	1 V	Line resistance influence (1)	TC, mV	<=0.8 uV/Ohm						
RTD (2, 3, 4 wires)							RTD 3 wires	0.05%/Ω (50Ω max balanced)				
	Pt100	-200°C	850°C						50°C			
	Pt1000	-85°C	185°C						30°C			
	Ni100	-60°C	180°C	50°C								
	Ni1000	-60°C	150°C	30°C								
RES. (2, 3, 4 wires)	0 Ω	500 Ω	50 Ω	Thermal drift (1)	Full Scale	± 0.01% / °C						
	0 Ω	2000 Ω	50 Ω				CJC	± 0.01% / °C				
Pot. (Rnom.< 50KΩ)	0 %	100 %	10 %	CJC Comp.	± 0.5°C							
Current	0 mA	20 mA	1 mA	OUTPUT								
Input calibration (1)	mV, TC RTD Res. Potentiometer Volt mA			Output type	Min	Max	Min. span	Output calibration Current ± 7 uA				
									Current	4 mA	20 mA	4 mA
				Burn-out values	Max. output value	21.8 mA						
							Min. output value		2.4 mA			
				Response time (10÷ 90%)	about 400 ms							
						Delay on output	Programmable from 0 to 30 sec.					
				ISOLATION								
				Input – Power supply/Out					1500 Vac, 50 Hz, 1 min.			
				ENVIRONMENTAL CONDITIONS								
				Operative Temperature					-40°C ..+85°C			
Storage Temperature				-40°C.. +85°C								
Humidity (not condensed)				0 .. 90 %								
Maximum Altitude				2000 m								
Installation				Indoor								
Category of installation				II								
Pollution Degree				2								
MECHANICAL SPECIFICATIONS												
Material				Self-extinguish plastic								
IP Code				IP20								
Wiring				wires with diameter 0.8÷2.1 mm² /AWG 14-18								
Tightening Torque				0.8 N m								
Mounting				in compliance with DIN rail standard EN-50022 and EN-50035								
Weight				about 90 g.								
EMC (for industrial environments)												
Immunity				EN 61000-6-2								
Emission				EN 61000-6-4								

(1) referred to input Span (difference between max. and min. values)

PROGRAMMING

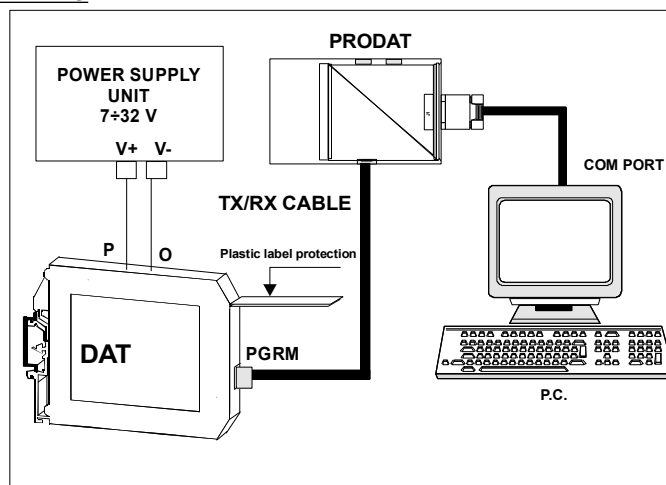
CONFIGURATION BY PC

By software DATESOFT from version 2.7 it is possible to:

- set the default programming of the device;
- program the options not available with the dip-switch;
(burn-out level, CJC offset, trip alarm settings, delay on output, etc...);
- read, in real time, the input and output measures;
- follow the dip-switches configuration wizard.

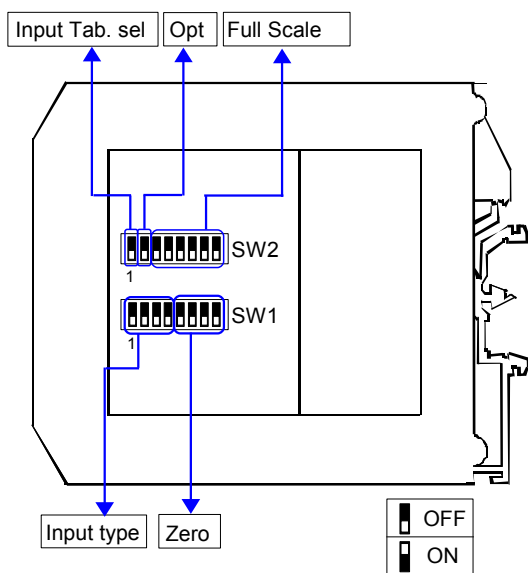
To configure the device follow the next steps:

- 1) Power-on the device.
- 2) Open the protection plastic label on the front of the device.
- 3) Connect the interface PRODAT to the PC (COM port) and to the device (PGRM connector).
- 4) Open DATESOFT.
- 5) Select the COM port in use.
- 6) Click on "Open COM".
- 7) Click on the icon "Program".
- 8) Set the programming data.
- 9) Click on the icon "Write" to send the programming data to the device.



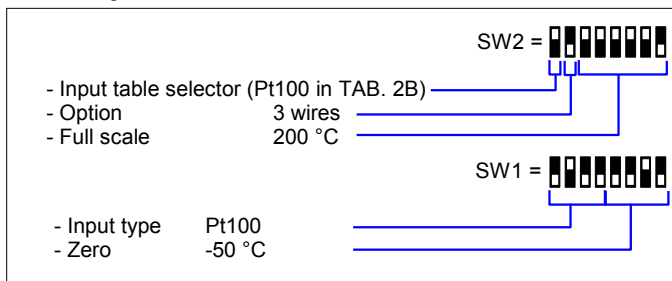
Warning: during these operations the device must always be powered and the TX/RX cable always connected.
For information about DATESOFT refer to the software's user guide.

CONFIGURATION BY DIP-SWITCHES



- 1) Open the suitable door on the side of the device.
- 2) Set the input table selector by the dip-switch SW2 [1] (see TAB.1)
- 3) Set the input type by the dip-switches SW1 [1..4] (see TAB.2A and TAB.2B)
- 4) Set, if foreseen, the option by dip-switch SW2 [2] (see TAB.3)
- 5) Set the minimum value of the input scale (Zero) by dip-switches SW1 [5..8] (see TAB.4)*
- 6) Set the full scale value by dip-switches SW2 [3..8] (see TAB.4)*

Ex of configuration Pt100 3 wires -50 ÷ 200 °C:



NOTE:

- It is also possible to set the dip-switches using the wizard of the configuration software following the procedure described in the section "Configuration by PC" until the step 6 and clicking on icon "Switch".

DIP-SWITCH CONFIGURATION TABLES

TAB.1 – Input table selection

SW2	TABLE
1	TAB. 2A (mV, Volt, mA, TC)
2	TAB. 2B (Res, RTD, Pot.)

TAB.2A – Input type selection

SW1	SW1
1 2 3 4	1 2 3 4
EPROM *	Tc J
90 mV	Tc K
200 mV	Tc R
800 mV	Tc S
10 V	Tc T
20 mA	Tc B
-----	Tc E
-----	Tc N

TAB.2B – Input type selection

SW1	SW1
1 2 3 4	1 2 3 4
Res. 2KΩ	-----
Res. 500Ω	-----
Pt100	-----
Ni100	-----
Pt 1K	-----
Ni 1K	-----
Pot. <500Ω	-----
Pot. <50KΩ	-----

TAB.3 - Option

SW2	CJC	RTD/RES
2	External	3 wires
1	Internal	2/4 wires

NOTES:

* To set the input range refer to the TAB.4 (next pages) referred to the input type selected by TAB.1, TAB.2A and TAB 2B.

* If the dip-switches SW1 [1..4] and SW2 [1] are all set in the position 0 ("EPROM"), the device will follow the configuration programmed by PC (input type and range, output range and options).

* If the dip-switches SW1 [5..8] and SW2 [3..8] are all set in the position 0 ("Default"), the device will follow the input scale programmed by PC for the input type selected by the dip-switches SW1[1..4] and SW2[1] .

* If the dip-switch SW2 [2] is set in the ON position and is in progress a measure by Resistance or RTD 2 wires sensor, it is necessary to connect the terminal I to the terminal L and the terminal G to to the terminal H.

TAB.4a – mV, Tc Input scale settings

Zero		Full Scale		Full Scale		Full Scale		Full Scale	
SW1 5 6 7 8	°C	SW2 3 4 5 6 7 8	°C	SW2 3 4 5 6 7 8	°C	SW2 3 4 5 6 7 8	°C	SW2 3 4 5 6 7 8	°C
☐ ☐ ☐ ☐	Default	☐ ☐ ☐ ☐ ☐ ☐	Default	☐ ☐ ☐ ☐ ☐ ☐	75	☐ ☐ ☐ ☐ ☐ ☐	225	☐ ☐ ☐ ☐ ☐ ☐	700
☐ ☐ ☐ ☐	-200	☐ ☐ ☐ ☐ ☐ ☐	0	☐ ☐ ☐ ☐ ☐ ☐	80	☐ ☐ ☐ ☐ ☐ ☐	250	☐ ☐ ☐ ☐ ☐ ☐	750
☐ ☐ ☐ ☐	-100	☐ ☐ ☐ ☐ ☐ ☐	5	☐ ☐ ☐ ☐ ☐ ☐	85	☐ ☐ ☐ ☐ ☐ ☐	255	☐ ☐ ☐ ☐ ☐ ☐	800
☐ ☐ ☐ ☐	-80	☐ ☐ ☐ ☐ ☐ ☐	10	☐ ☐ ☐ ☐ ☐ ☐	90	☐ ☐ ☐ ☐ ☐ ☐	275	☐ ☐ ☐ ☐ ☐ ☐	850
☐ ☐ ☐ ☐	-60	☐ ☐ ☐ ☐ ☐ ☐	15	☐ ☐ ☐ ☐ ☐ ☐	95	☐ ☐ ☐ ☐ ☐ ☐	300	☐ ☐ ☐ ☐ ☐ ☐	900
☐ ☐ ☐ ☐	-50	☐ ☐ ☐ ☐ ☐ ☐	20	☐ ☐ ☐ ☐ ☐ ☐	100	☐ ☐ ☐ ☐ ☐ ☐	325	☐ ☐ ☐ ☐ ☐ ☐	950
☐ ☐ ☐ ☐	-40	☐ ☐ ☐ ☐ ☐ ☐	25	☐ ☐ ☐ ☐ ☐ ☐	110	☐ ☐ ☐ ☐ ☐ ☐	350	☐ ☐ ☐ ☐ ☐ ☐	1000
☐ ☐ ☐ ☐	-30	☐ ☐ ☐ ☐ ☐ ☐	30	☐ ☐ ☐ ☐ ☐ ☐	120	☐ ☐ ☐ ☐ ☐ ☐	375	☐ ☐ ☐ ☐ ☐ ☐	1100
☐ ☐ ☐ ☐	-20	☐ ☐ ☐ ☐ ☐ ☐	35	☐ ☐ ☐ ☐ ☐ ☐	130	☐ ☐ ☐ ☐ ☐ ☐	400	☐ ☐ ☐ ☐ ☐ ☐	1200
☐ ☐ ☐ ☐	-10	☐ ☐ ☐ ☐ ☐ ☐	40	☐ ☐ ☐ ☐ ☐ ☐	140	☐ ☐ ☐ ☐ ☐ ☐	425	☐ ☐ ☐ ☐ ☐ ☐	1300
☐ ☐ ☐ ☐	0	☐ ☐ ☐ ☐ ☐ ☐	45	☐ ☐ ☐ ☐ ☐ ☐	150	☐ ☐ ☐ ☐ ☐ ☐	450	☐ ☐ ☐ ☐ ☐ ☐	1400
☐ ☐ ☐ ☐	10	☐ ☐ ☐ ☐ ☐ ☐	50	☐ ☐ ☐ ☐ ☐ ☐	160	☐ ☐ ☐ ☐ ☐ ☐	475	☐ ☐ ☐ ☐ ☐ ☐	1500
☐ ☐ ☐ ☐	20	☐ ☐ ☐ ☐ ☐ ☐	55	☐ ☐ ☐ ☐ ☐ ☐	170	☐ ☐ ☐ ☐ ☐ ☐	500	☐ ☐ ☐ ☐ ☐ ☐	1600
☐ ☐ ☐ ☐	50	☐ ☐ ☐ ☐ ☐ ☐	60	☐ ☐ ☐ ☐ ☐ ☐	180	☐ ☐ ☐ ☐ ☐ ☐	550	☐ ☐ ☐ ☐ ☐ ☐	1750
☐ ☐ ☐ ☐	100	☐ ☐ ☐ ☐ ☐ ☐	65	☐ ☐ ☐ ☐ ☐ ☐	190	☐ ☐ ☐ ☐ ☐ ☐	600	☐ ☐ ☐ ☐ ☐ ☐	1800
☐ ☐ ☐ ☐	150	☐ ☐ ☐ ☐ ☐ ☐	70	☐ ☐ ☐ ☐ ☐ ☐	200	☐ ☐ ☐ ☐ ☐ ☐	650	☐ ☐ ☐ ☐ ☐ ☐	1850

TAB.4b – Pt100, Pt1K, Ni100, Ni1K Input scale settings

Zero		Full Scale		Full Scale		Full Scale		Full Scale	
SW1 5 6 7 8	°C	SW2 3 4 5 6 7 8	°C	SW2 3 4 5 6 7 8	°C	SW2 3 4 5 6 7 8	°C	SW2 3 4 5 6 7 8	°C
☐ ☐ ☐ ☐	Default	☐ ☐ ☐ ☐ ☐ ☐	Default	☐ ☐ ☐ ☐ ☐ ☐	75	☐ ☐ ☐ ☐ ☐ ☐	210	☐ ☐ ☐ ☐ ☐ ☐	370
☐ ☐ ☐ ☐	-200	☐ ☐ ☐ ☐ ☐ ☐	0	☐ ☐ ☐ ☐ ☐ ☐	80	☐ ☐ ☐ ☐ ☐ ☐	220	☐ ☐ ☐ ☐ ☐ ☐	380
☐ ☐ ☐ ☐	-150	☐ ☐ ☐ ☐ ☐ ☐	5	☐ ☐ ☐ ☐ ☐ ☐	85	☐ ☐ ☐ ☐ ☐ ☐	230	☐ ☐ ☐ ☐ ☐ ☐	390
☐ ☐ ☐ ☐	-100	☐ ☐ ☐ ☐ ☐ ☐	10	☐ ☐ ☐ ☐ ☐ ☐	90	☐ ☐ ☐ ☐ ☐ ☐	240	☐ ☐ ☐ ☐ ☐ ☐	400
☐ ☐ ☐ ☐	-50	☐ ☐ ☐ ☐ ☐ ☐	15	☐ ☐ ☐ ☐ ☐ ☐	95	☐ ☐ ☐ ☐ ☐ ☐	250	☐ ☐ ☐ ☐ ☐ ☐	425
☐ ☐ ☐ ☐	-40	☐ ☐ ☐ ☐ ☐ ☐	20	☐ ☐ ☐ ☐ ☐ ☐	100	☐ ☐ ☐ ☐ ☐ ☐	260	☐ ☐ ☐ ☐ ☐ ☐	450
☐ ☐ ☐ ☐	-30	☐ ☐ ☐ ☐ ☐ ☐	25	☐ ☐ ☐ ☐ ☐ ☐	110	☐ ☐ ☐ ☐ ☐ ☐	270	☐ ☐ ☐ ☐ ☐ ☐	475
☐ ☐ ☐ ☐	-20	☐ ☐ ☐ ☐ ☐ ☐	30	☐ ☐ ☐ ☐ ☐ ☐	120	☐ ☐ ☐ ☐ ☐ ☐	280	☐ ☐ ☐ ☐ ☐ ☐	500
☐ ☐ ☐ ☐	-10	☐ ☐ ☐ ☐ ☐ ☐	35	☐ ☐ ☐ ☐ ☐ ☐	130	☐ ☐ ☐ ☐ ☐ ☐	290	☐ ☐ ☐ ☐ ☐ ☐	525
☐ ☐ ☐ ☐	0	☐ ☐ ☐ ☐ ☐ ☐	40	☐ ☐ ☐ ☐ ☐ ☐	140	☐ ☐ ☐ ☐ ☐ ☐	300	☐ ☐ ☐ ☐ ☐ ☐	550
☐ ☐ ☐ ☐	5	☐ ☐ ☐ ☐ ☐ ☐	45	☐ ☐ ☐ ☐ ☐ ☐	150	☐ ☐ ☐ ☐ ☐ ☐	310	☐ ☐ ☐ ☐ ☐ ☐	600
☐ ☐ ☐ ☐	10	☐ ☐ ☐ ☐ ☐ ☐	50	☐ ☐ ☐ ☐ ☐ ☐	160	☐ ☐ ☐ ☐ ☐ ☐	320	☐ ☐ ☐ ☐ ☐ ☐	650
☐ ☐ ☐ ☐	20	☐ ☐ ☐ ☐ ☐ ☐	55	☐ ☐ ☐ ☐ ☐ ☐	170	☐ ☐ ☐ ☐ ☐ ☐	330	☐ ☐ ☐ ☐ ☐ ☐	700
☐ ☐ ☐ ☐	30	☐ ☐ ☐ ☐ ☐ ☐	60	☐ ☐ ☐ ☐ ☐ ☐	180	☐ ☐ ☐ ☐ ☐ ☐	340	☐ ☐ ☐ ☐ ☐ ☐	750
☐ ☐ ☐ ☐	50	☐ ☐ ☐ ☐ ☐ ☐	65	☐ ☐ ☐ ☐ ☐ ☐	190	☐ ☐ ☐ ☐ ☐ ☐	350	☐ ☐ ☐ ☐ ☐ ☐	800
☐ ☐ ☐ ☐	100	☐ ☐ ☐ ☐ ☐ ☐	70	☐ ☐ ☐ ☐ ☐ ☐	200	☐ ☐ ☐ ☐ ☐ ☐	360	☐ ☐ ☐ ☐ ☐ ☐	850

TAB.4c – Resistance < 2KOhm Input scale settings

Zero		Full Scale		Full Scale		Full Scale		Full Scale	
SW1 5 6 7 8	Ω	SW2 3 4 5 6 7 8	Ω	SW2 3 4 5 6 7 8	Ω	SW2 3 4 5 6 7 8	Ω	SW2 3 4 5 6 7 8	Ω
☐ ☐ ☐ ☐	Default	☐ ☐ ☐ ☐ ☐ ☐	Default	☐ ☐ ☐ ☐ ☐ ☐	800	☐ ☐ ☐ ☐ ☐ ☐	1150	☐ ☐ ☐ ☐ ☐ ☐	1600
☐ ☐ ☐ ☐	0	☐ ☐ ☐ ☐ ☐ ☐	500	☐ ☐ ☐ ☐ ☐ ☐	820	☐ ☐ ☐ ☐ ☐ ☐	1175	☐ ☐ ☐ ☐ ☐ ☐	1650
☐ ☐ ☐ ☐	150	☐ ☐ ☐ ☐ ☐ ☐	520	☐ ☐ ☐ ☐ ☐ ☐	840	☐ ☐ ☐ ☐ ☐ ☐	1200	☐ ☐ ☐ ☐ ☐ ☐	1700
☐ ☐ ☐ ☐	200	☐ ☐ ☐ ☐ ☐ ☐	540	☐ ☐ ☐ ☐ ☐ ☐	860	☐ ☐ ☐ ☐ ☐ ☐	1225	☐ ☐ ☐ ☐ ☐ ☐	1750
☐ ☐ ☐ ☐	250	☐ ☐ ☐ ☐ ☐ ☐	560	☐ ☐ ☐ ☐ ☐ ☐	880	☐ ☐ ☐ ☐ ☐ ☐	1250	☐ ☐ ☐ ☐ ☐ ☐	1800
☐ ☐ ☐ ☐	300	☐ ☐ ☐ ☐ ☐ ☐	580	☐ ☐ ☐ ☐ ☐ ☐	900	☐ ☐ ☐ ☐ ☐ ☐	1275	☐ ☐ ☐ ☐ ☐ ☐	1850
☐ ☐ ☐ ☐	350	☐ ☐ ☐ ☐ ☐ ☐	600	☐ ☐ ☐ ☐ ☐ ☐	920	☐ ☐ ☐ ☐ ☐ ☐	1300	☐ ☐ ☐ ☐ ☐ ☐	1900
☐ ☐ ☐ ☐	400	☐ ☐ ☐ ☐ ☐ ☐	620	☐ ☐ ☐ ☐ ☐ ☐	940	☐ ☐ ☐ ☐ ☐ ☐	1325	☐ ☐ ☐ ☐ ☐ ☐	1950
☐ ☐ ☐ ☐	450	☐ ☐ ☐ ☐ ☐ ☐	640	☐ ☐ ☐ ☐ ☐ ☐	960	☐ ☐ ☐ ☐ ☐ ☐	1350	☐ ☐ ☐ ☐ ☐ ☐	2000
☐ ☐ ☐ ☐	500	☐ ☐ ☐ ☐ ☐ ☐	660	☐ ☐ ☐ ☐ ☐ ☐	980	☐ ☐ ☐ ☐ ☐ ☐	1375	☐ ☐ ☐ ☐ ☐ ☐	2000
☐ ☐ ☐ ☐	550	☐ ☐ ☐ ☐ ☐ ☐	680	☐ ☐ ☐ ☐ ☐ ☐	1000	☐ ☐ ☐ ☐ ☐ ☐	1400	☐ ☐ ☐ ☐ ☐ ☐	2000
☐ ☐ ☐ ☐	600	☐ ☐ ☐ ☐ ☐ ☐	700	☐ ☐ ☐ ☐ ☐ ☐	1025	☐ ☐ ☐ ☐ ☐ ☐	1425	☐ ☐ ☐ ☐ ☐ ☐	2000
☐ ☐ ☐ ☐	650	☐ ☐ ☐ ☐ ☐ ☐	720	☐ ☐ ☐ ☐ ☐ ☐	1050	☐ ☐ ☐ ☐ ☐ ☐	1450	☐ ☐ ☐ ☐ ☐ ☐	2000
☐ ☐ ☐ ☐	700	☐ ☐ ☐ ☐ ☐ ☐	740	☐ ☐ ☐ ☐ ☐ ☐	1075	☐ ☐ ☐ ☐ ☐ ☐	1475	☐ ☐ ☐ ☐ ☐ ☐	2000
☐ ☐ ☐ ☐	750	☐ ☐ ☐ ☐ ☐ ☐	760	☐ ☐ ☐ ☐ ☐ ☐	1100	☐ ☐ ☐ ☐ ☐ ☐	1500	☐ ☐ ☐ ☐ ☐ ☐	2000
☐ ☐ ☐ ☐	800	☐ ☐ ☐ ☐ ☐ ☐	780	☐ ☐ ☐ ☐ ☐ ☐	1125	☐ ☐ ☐ ☐ ☐ ☐	1550	☐ ☐ ☐ ☐ ☐ ☐	2000

TAB.4d – Resistance < 500 ohm Input scale settings

Zero		Full Scale									
SW1		SW2		SW2		SW2		SW2		SW2	
5 6 7 8	Ω	3 4 5 6 7 8	Ω	3 4 5 6 7 8	Ω	3 4 5 6 7 8	Ω	3 4 5 6 7 8	Ω	3 4 5 6 7 8	Ω
Default		Default			125		210		370		
0		50			130		220		380		
10		55			135		230		390		
20		60			140		240		400		
30		65			145		250		410		
40		70			150		260		420		
50		75			155		270		430		
75		80			160		280		440		
100		85			165		290		450		
125		90			170		300		460		
150		95			175		310		470		
175		100			180		320		480		
200		105			185		330		490		
225		110			190		340		500		
250		115			195		350		500		
300		120			200		360		500		

TAB.4e – Potentiometer Input scale settings

Zero		Full Scale									
SW1		SW2		SW2		SW2		SW2		SW2	
5 6 7 8	%	3 4 5 6 7 8	%	3 4 5 6 7 8	%	3 4 5 6 7 8	%	3 4 5 6 7 8	%	3 4 5 6 7 8	%
Default		Default			34		66		98		
0		5			36		68		100		
15		6			38		70		100		
20		8			40		72		100		
25		10			42		74		100		
30		12			44		76		100		
35		14			46		78		100		
40		16			48		80		100		
45		18			50		82		100		
50		20			52		84		100		
55		22			54		86		100		
60		24			56		88		100		
65		26			58		90		100		
70		28			60		92		100		
75		30			62		94		100		
80		32			64		96		100		

TAB.4f – mA Input scale settings

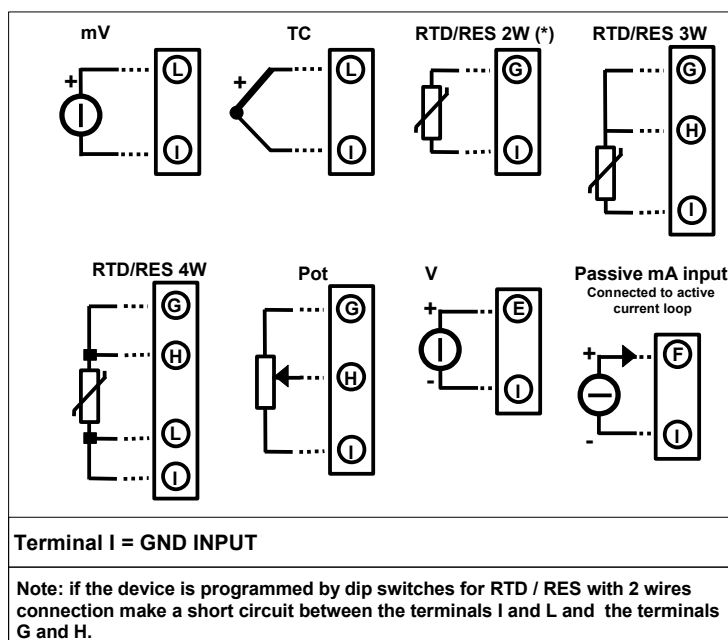
Zero		Full Scale									
SW1		SW2		SW2		SW2		SW2		SW2	
5 6 7 8	mA	3 4 5 6 7 8	mA	3 4 5 6 7 8	mA	3 4 5 6 7 8	mA	3 4 5 6 7 8	mA	3 4 5 6 7 8	mA
Default		Default			8		11.5		16		
0		5			8.2		11.75		16.5		
1.5		5.2			8.4		12		17		
2		5.4			8.6		12.25		17.5		
2.5		5.6			8.8		12.5		18		
3		5.8			9		12.75		18.5		
3.5		6			9.2		13		19		
4		6.2			9.4		13.25		19.5		
4.5		6.4			9.6		13.5		20		
5		6.6			9.8		13.75		20		
5.5		6.8			10		14		20		
6		7			10.25		14.25		20		
6.5		7.2			10.5		14.5		20		
7		7.4			10.75		14.75		20		
7.5		7.6			11		15		20		
8		7.8			11.25		15.5		20		

TAB.4g – Volt Input scale settings

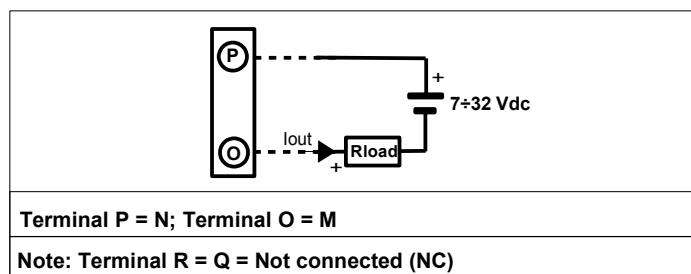
Zero		Full Scale							
SW1 5 6 7 8	Volt	SW2 3 4 5 6 7 8	Volt	SW2 3 4 5 6 7 8	Volt	SW2 3 4 5 6 7 8	Volt	SW2 3 4 5 6 7 8	Volt
	Default		Default		3.4		6.6		9.8
	0		0.5		3.6		6.8		10
	1.5		0.6		3.8		7		10
	2		0.8		4		7.2		10
	2.5		1		4.2		7.4		10
	3		1.2		4.4		7.6		10
	3.5		1.4		4.6		7.8		10
	4		1.6		4.8		8		10
	4.5		1.8		5		8.2		10
	5		2		5.2		8.4		10
	5.5		2.2		5.4		8.6		10
	6		2.4		5.6		8.8		10
	6.5		2.6		5.8		9		10
	7		2.8		6		9.2		10
	7.5		3		6.2		9.4		10
	8		3.2		6.4		9.6		10

CONNECTIONS

INPUT CONNECTION



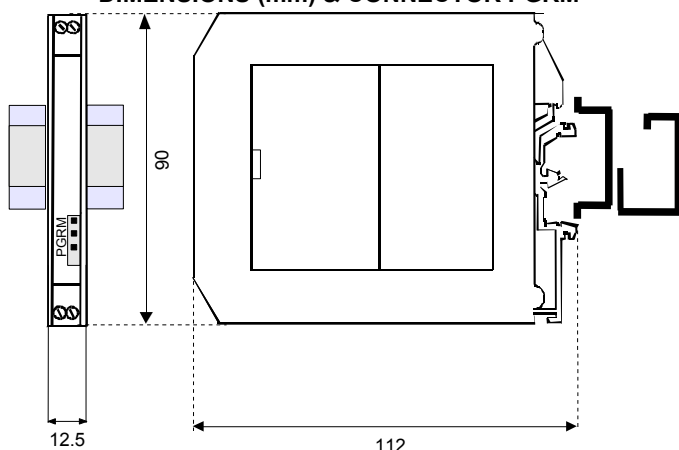
POWER SUPPLY / OUTPUT CONNECTION



ISOLATION STRUCTURE



DIMENSIONS (mm) & CONNECTOR PGRM



INSTALLATION INSTRUCTIONS

The device DAT 4535 is suitable for DIN rail mounting.
It is necessary to install the device in a place without vibrations; avoid to routing conductors near power signal cables .

HOW TO ORDER

The device is provided as requested on the Customer's order.
Refer to the section "Programming" to determine the input ranges.
In case of the configuration is not specified, the parameters must be set by the user.

ORDER CODE EXAMPLE

DAT4535 / **Pt100** / **0 ÷ 200 °C** / **3 wires** / **4 ÷ 20 mA**

