FRT, FRB - trench heaters | ISAN Radiátory s.r.o. | www.isan.cz |

DIAGRAM H2-01E
HEATING ONLY, 2-PIPE SYSTEM
Version: 20240102

BASIC FRT, FRB circuit diagram, 2-PIPE
HEATING ONLY, THERMOSTAT **RTD201**(RDG1260T)

NOTE:

A) The voltage must not drop below 22V DC, it is necessary that the conductor cross sections be sized correctly according to the SW calculation

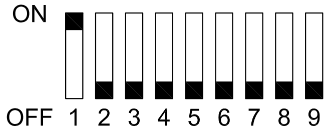
B) If more than 10 electrothermal actuators are used it is necessary to use the RL10 switching relay (see the H2-02E DIAGRAM version 20240102)

C) If the capacity of the switched-mode power supply is insufficient, use additional power supplies (see the H2-03E DIAGRAM version 20240102).

Note: Pay attention to the correct polarity! Reversing the polarity may cause irreversible damage.

THERMOSTAT RTD201*
(Siemens RDG260T)

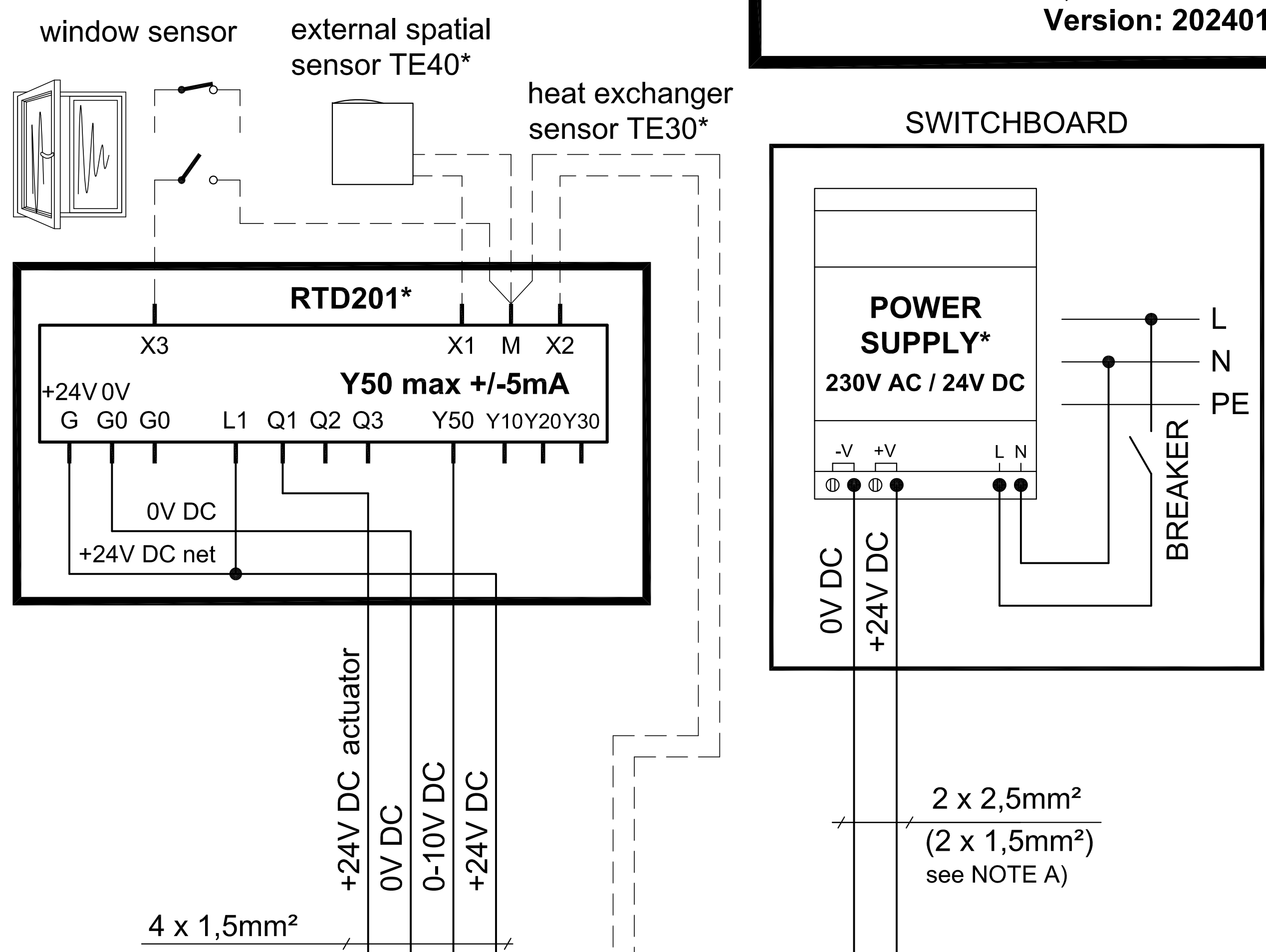
Standard DIP switches settings on the back of the thermostat**

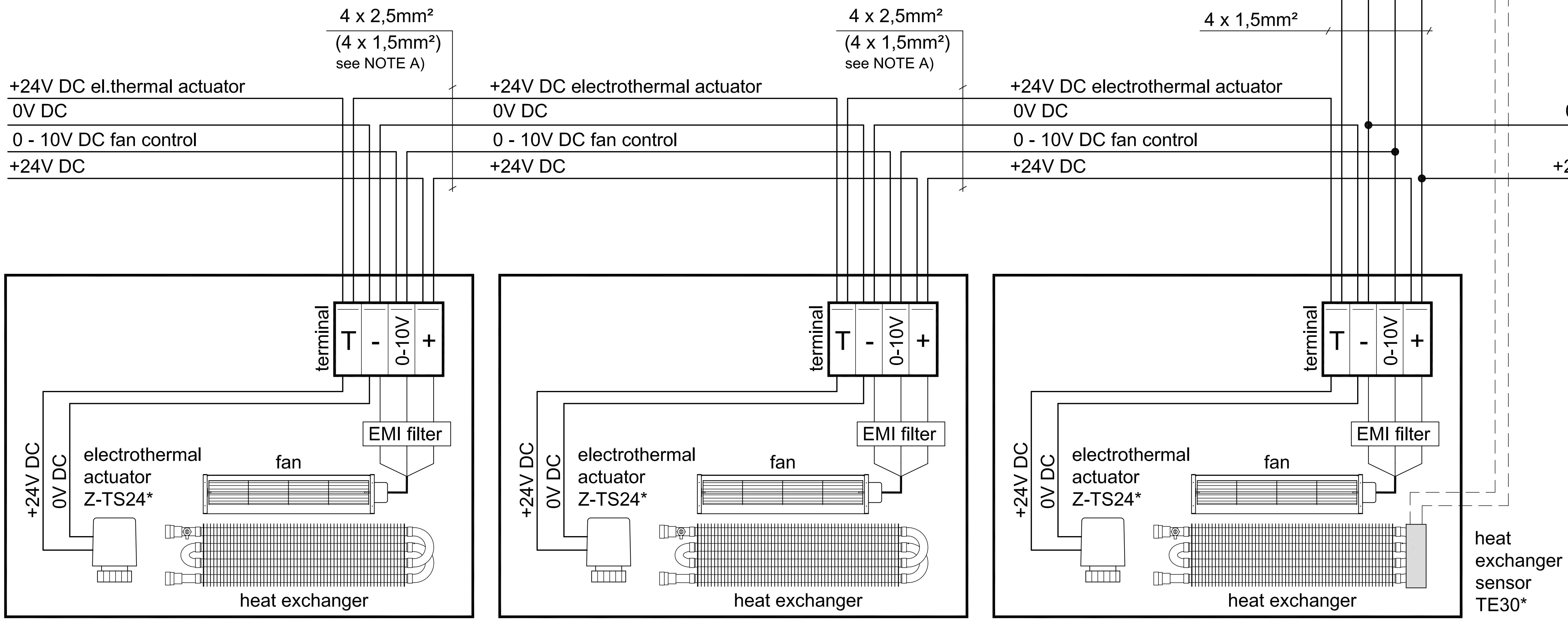


Standard setting of the **RTD201** thermostat parameters:

P001 = 0	heating only
P357 = 20%	min speed
P358 = 60%	medium speed
P359 = 99%	max speed
P400 = 2	actuator opening
P031 = 1-15	language

1 = English; 2 = Francais; 3 = Deutsch
4 = Italiano; 5 = Espanol; 6 = Nederlands
7 = Turkce; 8 = Cesky; 9 = Suomi
10 = Polski; 11 = Magyar; 12 = Slovensky
13 = Romana; 14 = Dansk; 15 = Norsk





TRENCH HEATERS 3, 4, ... **TRENCH HEATER 2** **TRENCH HEATER 1**

Add 1)
Parameter P031 detail
1 = English; 2 = Francais; 3 = Deutsch
4 = Italiano; 5 = Espanol; 6 = Nederlands
7 = Turkce; 8 = Cesky; 9 = Suomi
10 = Polski; 11 = Magyar; 12 = Slovensky
13 = Romana; 14 = Dansk; 15 = Norsk

TE30 - a separate temperature sensor monitors the heat exchanger temperature, ensuring the fans are not activated while the heat exchanger is cold.*

Setting the parameters of the RTD201 thermostat, for the TE30 sensor (if installed):*
***P153 = 12** when connecting the sensor to X2*
***P366** = factory setting 30°C*
option: 5...60°C

* *accessories*
** *if all DIP switches are OFF, it is possible to set the thermostat using NFC (**PCT Go** application on Google Play and App Store)*

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DIAGRAM H2-02E
HEATING ONLY, 2-PIPE SYSTEM
Version: 20240102

Connection with more than 10 Z-TS24 actuators, 2-PIPE HEATING ONLY, THERMOSTAT **RTD201**(RDG260T)

NOTE:

A) The voltage must not drop below 22V DC, it is necessary that the conductor cross sections be sized correctly according to the SW calculation

B) For basic connection see the H2-01E DIAGRAM version 20240102

C) If the capacity of the switched-mode power supply is insufficient, use additional power supplies (see the H2-03E DIAGRAM version 20240102).

Note: Pay attention to the correct polarity! Reversing the polarity may cause irreversible damage.

THERMOSTAT RTD201*
(Siemens RDG260T)

Standard DIP switches settings on the back of the thermostat**

Standard setting of the **RTD201** thermostat parameters:

P001 = 0	heating only
P357 = 20%	min speed
P358 = 60%	medium speed
P359 = 99%	max speed
P400 = 2	actuator opening
P031 = 1-15	language

1 = English; 2 = Francais; 3 = Deutsch
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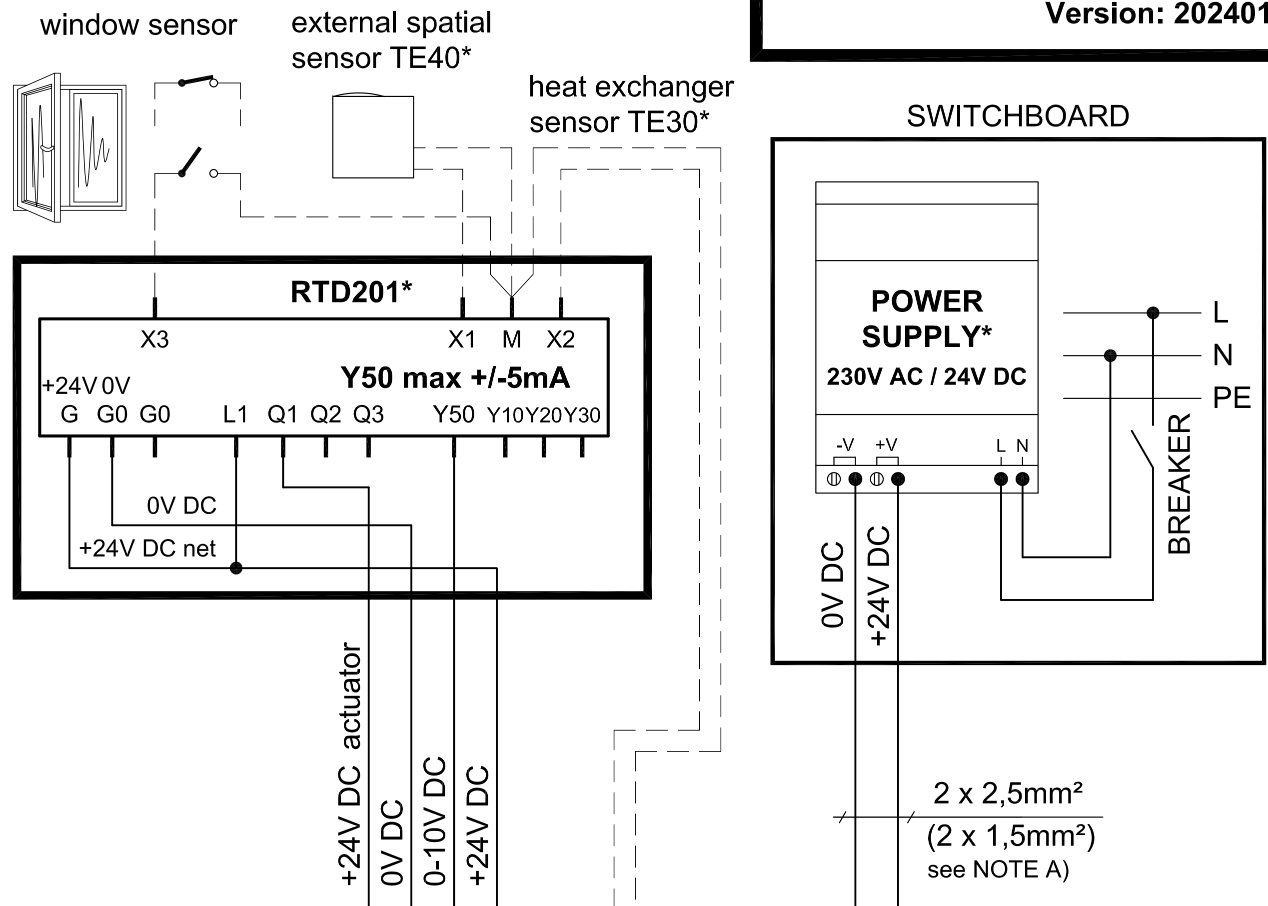

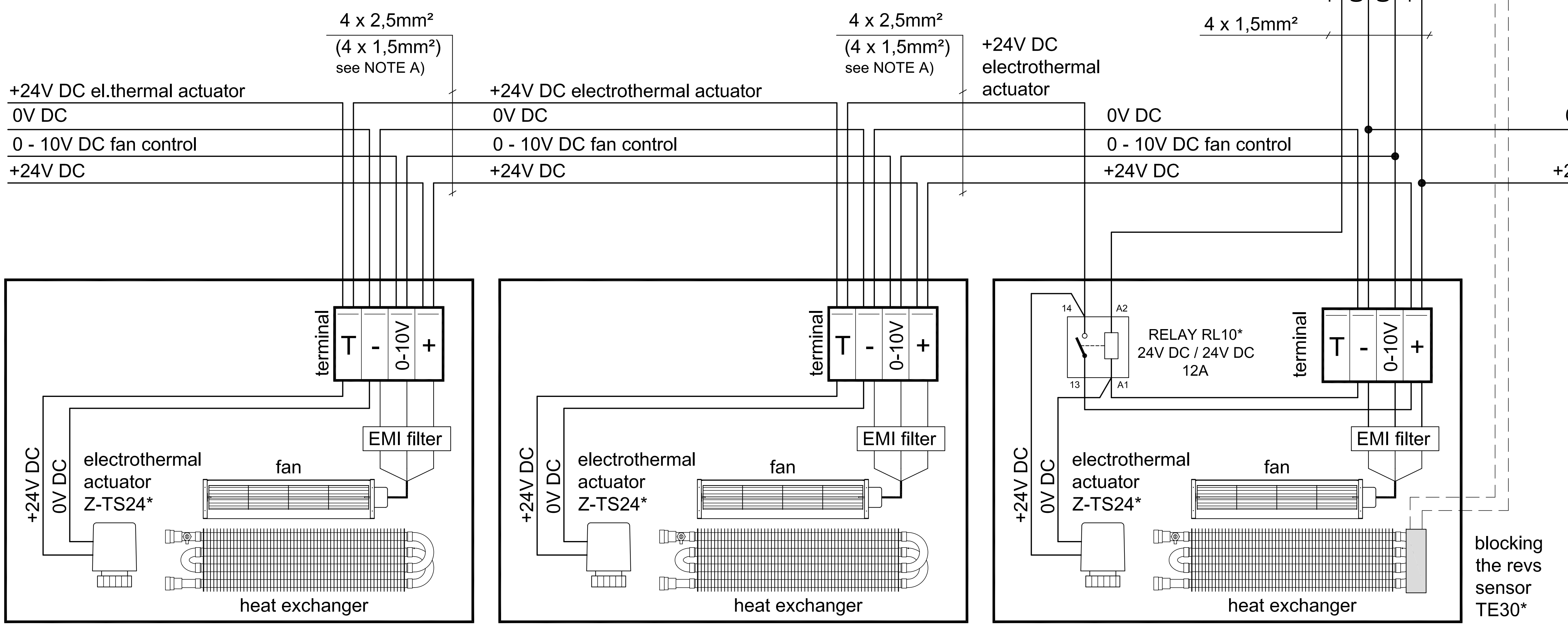

TRENCH HEATERS 3, 4, ... **TRENCH HEATER 2** **TRENCH HEATER 1**

TE30 - a separate temperature sensor monitors the heat exchanger temperature, ensuring the fans are not activated while the heat exchanger is cold.*

Setting the parameters of the RTD201 thermostat, for the TE30 sensor (if installed):*

***P153 = 12** when connecting the sensor to X2*
***P366** = factory setting 30°C*
option: 5...60°C

* *accessories*

** *if all DIP switches are OFF, it is possible to set the thermostat using NFC (**PCT Go** application on Google Play and App Store)*

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DIAGRAM H2-03E
HEATING ONLY, 2-PIPE SYSTEM
Version: 20240102

Connection with more power supplies PS-xx-24
2-PIPE, HEATING ONLY, THERMOSTAT **RTD201**

NOTE:

A) The voltage must not drop below 22V DC, it is necessary that the conductor cross sections be sized correctly according to the SW calculation

B) If more than 10 electrothermal actuators are used it is necessary to use the RL10 switching relay (see the H2-02E DIAGRAM version 20240102)

C) all sources shall be powered from a single circuit breaker.

D) For basic connection see the H2-01E DIAGRAM version 20240102

Note: Pay attention to the correct polarity! Reversing the polarity may cause irreversible damage.

Standard DIP switches settings on the back of the thermostat**

Standard setting of the **RTD201** thermostat parameters:

P001 = 0	heating only
P357 = 20%	min speed
P358 = 60%	medium speed
P359 = 99%	max speed
P400 = 2	actuator opening
P031 = 1-15	language

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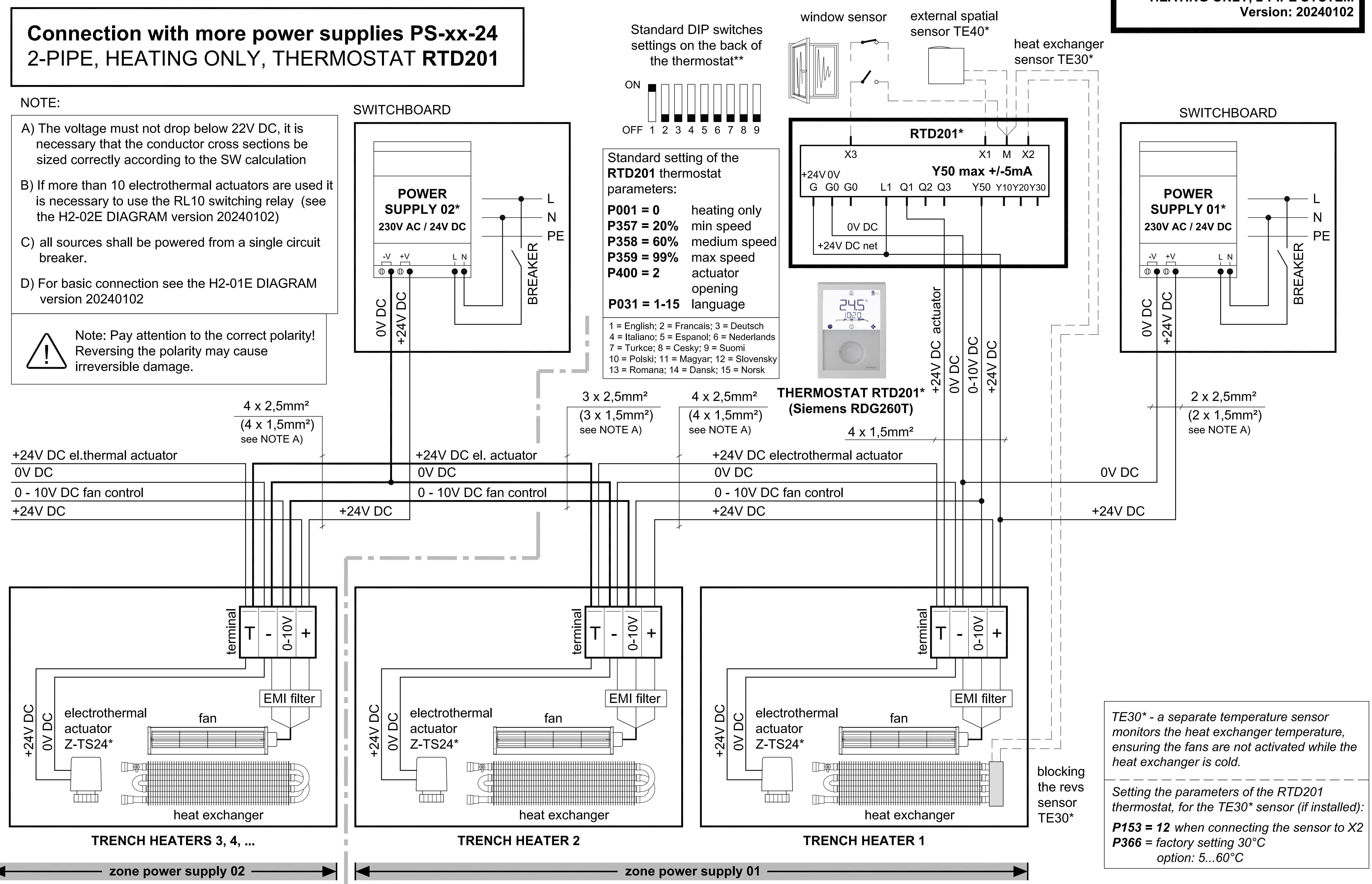

TE30 - a separate temperature sensor monitors the heat exchanger temperature, ensuring the fans are not activated while the heat exchanger is cold.*

Setting the parameters of the RTD201 thermostat, for the TE30 sensor (if installed):*

***P153 = 12** when connecting the sensor to X2*
***P366** = factory setting 30°C*
option: 5...60°C

* accessories
** *if all DIP switches are OFF, it is possible to set the thermostat using NFC (**PCT Go** application on Google Play and App Store)*