



- Press (long press > 0.5 s) the PROG button for changing the setting.
- Press (brief press) the INI button for save settings. It will be indicated by simultaneous slow green blink of the LED 1 and LED 2.

#### B) Setting of the transmission code with humidity value

- Press (long press > 0.5 s) the PROG button once and then press it briefly once. It will be indicated by LED 1 flashing green and LED 2 illuminated red. The green illumination of the LED 4 signals that the transmission is switched ON while the red illumination of the LED 3 signals that the transmission is switched OFF.
- Press (long press > 0.5 s) the PROG button for changing the setting.
- Press (brief press) the INI button to save the settings. It will be indicated by a simultaneous slow green blink of LED 1 and LED 2.

#### C) Setting of the transmission code with CO<sub>2</sub> value

- Press (long press > 0.5 s) the PROG button once and then press it briefly twice. It will be indicated by LED 1 flashing green and LED 2 flashing green/red. The green illumination of the LED 4 signals that the transmission is switched ON while the red illumination of the LED 3 signals that the transmission is switched OFF.
- Press (long press > 0.5 s) the PROG button for changing the setting.
- Press (brief press) the INI button to save settings. It will be indicated by a simultaneous slow green blink of LED 1 and LED 2.

#### D) Setting of the transmission code for the control of the CO<sub>2</sub> concentration

- Press (long press > 0.5 s) the PROG button once and then press it briefly three times. It will be indicated by LED 1 flashing red and LED 2 flashing green/red. The green illumination of the LED 4 signals that the transmission is switched ON while the red illumination of the LED 3 signals that the transmission is switched OFF.
- Press (long press > 0.5 s) the PROG button for changing the setting
- Press (brief press) the INI button for save settings. It will be indicated by simultaneous slow green blink of LED 1 and LED 2.

#### E) Setting of the transmission repetition of the code for the control of the CO<sub>2</sub> concentration

- Press (long press > 0.5 s) the PROG button once and then press it briefly four times. It will be indicated by LED 1 flashing red and LED 2 illuminated green. The green illumination of the LED 4 signals that the transmission is switched ON while the red illumination of the LED 3 signals that the transmission is switched OFF.
- Press (long press > 0.5 s) the PROG button for changing the setting
- Press (brief press) the INI button to save settings. It will be indicated by simultaneous slow green blink of LED 1 and LED 2.

#### F) Setting of the acoustic signal

- Press (long press > 0.5 s) the PROG button once and then press it briefly five times. It will be indicated by LED 1 flashing green/red and LED 2 illuminated green. The green illumination of the LED 4 signals that the transmission is switched ON while the red illumination of the LED 3 signals that the transmission is switched OFF.
- Press (long press > 0.5 s) the PROG button for changing the setting
- Press (brief press) the INI button to save settings. It will be indicated by simultaneous slow green blink of LED 1 and LED 2.

#### G) Setting of the automatic calibration

- Press (long press > 0.5 s) the PROG button once and then press it briefly six times. It will be indicated by LED 1 flashing green/red and LED 2 illuminated red. The green illumination of the LED 4 signals that the automatic calibration is switched ON while the red illumination of the LED 3 signals that the automatic calibration is switched OFF.
- Press (long press > 0.5 s) the PROG button for changing the setting
- Press (brief press) the INI button to save settings. It will be indicated by simultaneous slow green blink of LED 1 and LED 2.

Note:

If the transmitting of the code for the control of the CO<sub>2</sub> concentration is switched off, the choice of the transmission repetition setting is omitted. If the controlling of the CO<sub>2</sub> concentration is completely switched off (the rotary switch position is 0), it is omitted moreover the choice of the code for control of the CO<sub>2</sub> concentration and the choice of the acoustic signal.

If there is a need to leave the settings menu without saving changes, long press the INI button. Return to the operating mode will be indicated by alternate quick green flashing of LED 1 and LED 2.

#### H) Setting of the reference value and the hysteresis for control of the CO<sub>2</sub> concentration

- Set the required value of CO<sub>2</sub> and hysteresis (ppm) on the rotary switch by chart 1.

#### Transmitting of the initialization code

##### I) Transmitting of the initialization code with temperature value

- Press (brief press) the PROG button once. It will be indicated by LED 1 and LED 2 illuminated in green.
- Press (brief press) the INI button for transmitting the initialization code. It will be indicated by a slow green blink of both LEDs.

##### J) Transmitting of the initialization code with humidity value

- Press (brief press) the PROG button twice. It will be indicated by LED 1 illuminated in green and LED 2 illuminated in red.
- Press (brief press) the INI button for transmitting the initialization code. It will be indicated by a slow green blink of both LEDs.

##### K) Transmitting of the initialization code with CO<sub>2</sub> value

- Press (brief press) the PROG button three times. It will be indicated by the LED 1 illuminated in green and LED 2 flashing red and green.
- Press (brief press) the INI button for transmitting the initialization code. It will be indicated by slow green blink of both LEDs.

##### L) Transmitting of the initialization code ON+OFF for the control of the CO<sub>2</sub> concentration

- Press (brief press) the PROG button four times. It will be indicated by the LED 1 illuminated in red and the LED 2 flashing red and green.
- Press (brief press) the INI button for transmitting the initialization code. It will be indicated by slow green blink of both LEDs.

##### M) Transmitting of the initialization code ON for the control of the CO<sub>2</sub> concentration

- Press (brief press) the PROG button five times. It will be indicated by LED 1 illuminated in red and LED 2 illuminated in green.
- Press (brief press) the INI button for transmitting the initialization code. It will be indicated by a slow green blink of both LEDs.

##### N) Transmitting of the initialization code OFF for the control of the CO<sub>2</sub> concentration

- Press (brief press) the PROG button six times. It will be indicated by LED 1 and LED 2 illuminated in red.
- Press (brief press) the INI button for transmitting the initialization code. It will be indicated by slow green blink of both LEDs.

##### O) Start the manual calibration of sensor CO<sub>2</sub>

- Press (brief press) the PROG button seven times. It will be indicated by the LED 1 and LED 2 flashing red and green.
- Press (brief press) the INI button for starting the calibration of the sensor CO<sub>2</sub>. It will be indicated by a yellow flashing of the LED in the middle of cover during the calibration.
- When the calibration is completed, the flashing stops.

Note:

During the calibration the sensor must be in a well-ventilated area.

#### Running the test mode

- Press the PROG button for more than 10 s.
- LED 1 starts flashing quickly green and the sensor switches into the test mode, in which the measured temperature value, humidity value, CO<sub>2</sub> value and alternately code ON/OFF is transmitted approximately every 10 s.
- Press the button again to end the test mode (it will also end automatically after 10 minutes).

Note:

In the rotary switch position 1, 2, 4 and 8 is the transmitting value of the temperature fixed at 1, 2, 4 and 8 °C.

In test mode, the sensor status is indicated by an LED only on the right side of the cover.

Warning:

By removing the jumper on the underside of the sensor control unit (Fig. 2), it is possible to block the function of the buttons and thus protect the sensor from unwanted change in its settings.

Hereby, ENIKA.CZ s.r.o. declares that the radio equipment type P8 T CO2 MR (MS) is in compliance with Directive 2014/53/EU. The full text of the EU Declaration of conformity is available at the following internet address: [www.enika.cz](http://www.enika.cz).

Technická data / Technical data	P8 T CO2 MR, P8 T CO2 MS
Přesnost měření teploty / Temperature measurement accuracy:	±0,5 K
Rozlišení / Resolution:	0,0625 K
Přesnost měření vlhkosti / Humidity measurement accuracy:	±4,5 % v rozsahu / in range 20 až / to 80 %RH ±7,5 % v rozsahu / in range 0 až / to 20 %RH 80 až / to 100 %RH
Rozlišení / Resolution:	0,025 %
Přesnost měření koncentrace CO <sub>2</sub> / Concentration of CO <sub>2</sub> measurement accuracy:	±50 ppm + ±3% z hodnoty* / of reading* v rozsahu / in the range 400 až / to 3000 ppm
Rozlišení / Resolution:	1 ppm
Interval měření / Measurement interval:	asi / approximately 1 min
Interval vysílání / Transmission interval:	max. 10 min
Doba ustálení / Setting time:	2 hodiny / hours
Napájení / Power supply:	230 V ±10 % 50 Hz
Připojovací svorky / Connecting terminals:	bezšroubové / screwless 0,5 až / to 1,5 mm <sup>2</sup>
Stupeň krytí / Degree of protection:	IP 20 podle / according to ČSN EN 60529
Provozní teplota / Operating temperature:	0 až / to + 45 °C
Provozní kmitočet / Frequency:	868,3 MHz
Vf výkon / RF power:	10 dBm
Dosah / Range:	150 m ve volném prostoru / in open space
Počet kódů / Number of codes:	2 <sup>24</sup>
Hmotnost / Weight:	120 g (MR), 95 g (MS)
Životnost snímače CO <sub>2</sub> / CO <sub>2</sub> sensor lifetime:	10 let / years

\* Přesnost je dosažena po provedené kalibraci nebo po proběhnutí nejméně 3 automatických kalibračních cyklů. První cyklus po zapnutí jednotky trvá 3 dny, každý další cyklus trvá 7 dní. Během každého cyklu musí být prostor vyvětrán tak, aby koncentrace CO<sub>2</sub> v prostoru dosáhla hodnoty cca 400 ppm, což odpovídá koncentraci CO<sub>2</sub> v otevřeném prostoru. / \* The accuracy is achieved after calibration or after at least 3 automatic calibration cycles. First cycle, after switch on the unit, lasts 3 days, every next cycle lasts 7 days. The area must be ventilate during every cycle and concentration of CO<sub>2</sub> for this are must be about value 400 ppm. That's value of concentration CO<sub>2</sub> in open area.

Na zařízení není dovoleno provádět dodatečné technické úpravy! / It is forbidden to do any technical modifications on the device!

Zařízení lze provozovat na základě aktuálního VO–R/10/. (viz [www.ctu.cz](http://www.ctu.cz)) a za podmínek v něm uvedených.



#### EU Prohlášení o shodě

Výrobce: ENIKA.CZ s. r. o.  
190 00 PRAHA 9, Pod Harfou 933/86  
IČO: 28218167

tímto prohlašuje, že výrobek

typové označení: P8 T CO2 MR, P8 T CO2 MS

specifikace: ---  
druh výrobku: Snímač kvality vzduchu

frekvence: 868,3 MHz  
vf výkon: 10 dBm

- je ve shodě se základními požadavky evropských direktiv:  
2014/53/EU (RED) (dodávání radiových zařízení na trh)  
2011/65/EU (RoHS) (omez. používání některých škodlivých látek)

- splňuje požadavky těchto norem a předpisů:  
ČSN ETSI EN 300 220-1 V3.1.1:17  
ČSN ETSI EN 301 489-1 V2.1.1:17  
ČSN EN 60730-2-13 ed.2:08  
ČSN EN 50581:2013

Toto prohlášení je vydáno na výhradní odpovědnost výrobce.

V Nové Pace dne 17. 12. 2020

ing. Vladimír Milítký,  
řídící systému jakosti