

# Individual gas analyzer АНКАТ-7631Микро



Designed for personnel safety to prevent toxic gas poisoning and to monitor excess/lack of oxygen. It continuously measures analyte (one of: CO, HCl, H<sub>2</sub>S, NH<sub>3</sub>, Cl<sub>2</sub>, SO<sub>2</sub>, NO<sub>2</sub> or O<sub>2</sub>) concentrations in air.

## Application

In industries and processes of extraction, treatment, transportation and storage of natural gas, oil and oil products. At plants and facilities that use toxic and/or oxygen in technological processes.



Gas analyzer type – individual.  
Sampling – diffusion.  
Principle of operation – electrochemical.

## Measuring/indicating range

Designation	Code name	Units of measurement	Measuring range	Indicating range	Actuation thresholds, by default	
					Threshold 1	Threshold 2
ИБЯЛ.413411.058	АНКАТ-7631Микро-CO	mg/m <sup>3</sup>	0-200	0-350	20	50
-01	АНКАТ-7631Микро-HCl	mg/m <sup>3</sup>	0-30	0-40	5	25
-02	АНКАТ-7631Микро-H <sub>2</sub> S	mg/m <sup>3</sup>	0-20	0-40	3	10
-04	АНКАТ-7631Микро-NH <sub>3</sub>	mg/m <sup>3</sup>	0-150	0-250	20	60
-05	АНКАТ-7631Микро-Cl <sub>2</sub>	mg/m <sup>3</sup>	0-25	0-50	1	5
-06	АНКАТ-7631Микро-SO <sub>2</sub>	mg/m <sup>3</sup>	0-20	0-40	10	20
-07	АНКАТ-7631Микро-NO <sub>2</sub>	mg/m <sup>3</sup>	0-10	0-20	2	10
-09	АНКАТ-7631Микро-O <sub>2</sub>	volume fraction, %	0-30	0-45	23 (excess)	18 (drop)
-10	АНКАТ-7631Микро-O <sub>2</sub> -ВД	volume fraction, %	0-30	0-45	5 (excess)	1 (drop)

## Other technical characteristics

Code name	Units of measurement	Measuring range	Part of measuring range where intrinsic error is rated	Value of intrinsic absolute (relative, fiducial) error
АНКАТ-7631Микро-CO	mg/m <sup>3</sup>	0-200	from 0 to 20 from 20 to 200	$\Delta d = \pm 5 \text{ mg/m}^3$ $\Delta d = \pm (5 + 0,25 \cdot (C_{in} - 20)) \text{ mg/m}^3$
АНКАТ-7631Микро-HCl	mg/m <sup>3</sup>	0-30	from 0 to 5 from 5 to 30	$\Delta d = \pm 1,25 \text{ mg/m}^3$ $\Delta d = \pm 0,25 \cdot C_{in} \text{ mg/m}^3$
АНКАТ-7631Микро-H <sub>2</sub> S	mg/m <sup>3</sup>	0-20	from 0 to 3 from 3 to 20	$\Delta d = \pm 0,75 \text{ mg/m}^3$ $\Delta d = \pm (0,75 + 0,25 \cdot (C_{in} - 3)) \text{ mg/m}^3$
АНКАТ-7631Микро-NH <sub>3</sub>	mg/m <sup>3</sup>	0-150	from 0 to 20 from 20 to 150	$\Delta d = \pm 5 \text{ mg/m}^3$ $\Delta d = \pm 25 \%$
АНКАТ-7631Микро-Cl <sub>2</sub>	mg/m <sup>3</sup>	0-25	from 0 to 1 from 1 to 25	$\Delta d = \pm 0,25 \text{ mg/m}^3$ $\Delta d = \pm (0,25 + 0,25 \cdot (C_{in} - 1)) \text{ mg/m}^3$
АНКАТ-7631Микро-SO <sub>2</sub>	mg/m <sup>3</sup>	0-20	over the whole range	$\gamma \Delta d = \pm (2,5 + 0,125 \cdot C_{in}) \text{ mg/m}^3$
АНКАТ-7631Микро-NO <sub>2</sub>	mg/m <sup>3</sup>	0-10	from 0 to 2 from 2 to 10	$\Delta d = \pm 0,5 \text{ mg/m}^3$ $\Delta d = \pm (0,5 + 0,15 \cdot (C_{in} - 2)) \text{ mg/m}^3$
АНКАТ-7631Микро-O <sub>2</sub>	volume fraction, %	0-30	over the whole range	$\Delta d = \pm 3 \%$
АНКАТ-7631Микро-O <sub>2</sub> -ВД	volume fraction, %	0-30	over the whole range	$\Delta d = \pm (0,4 + 0,05 \cdot C_{in})$ of volume fraction, $\% \Delta d = \pm 0,5 \text{ mg/m}^3$

C<sub>in</sub> - analyte mass concentration at gas analyzer inlet

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## Basic technical characteristics

Characteristics	Values	Remarks
Explosion protection marking	1ExibIICT6X	
Range of operating temperatures, °C	-40 / +60	
Enclosure protection degree	IP 68	
Alarm types	sound / light / vibration	
Period of continuous operation, h, at least	500	
Overall dimensions (LxWxH), mm, at most	55x35x105	dimensions of remote detector АНККАТ-7631Микро-02-ВД height - 140 mm; diameter - 70mm
Weight, kg, at most	0,2	



### Standard equipment

- > Gas analyzer АНККАТ-7631Микро;
- > SPTA set;
- > Documentation.



All modifications of АНККАТ-7631Микро comply with the requirements of Rules of Russian Maritime Register of Shipping (RMRS) and Rules of Russian River Register (RRR).



### Optional items can be ordered

- > Sampling device ИБЯЛ.418311.038;
- > Rubber bellow ИБЯЛ.302646.001 (for forced sampling);
- > Set for readings adjustment (TGM-SSS 2 pcs, fine adjustment valve, flow rate indicator);

- > Set for readings verification (TGM-SSS 3 pcs, fine adjustment valve, flow rate indicator);
- > Gas-sampling probe ИБЯЛ.418311.043 (for sampling in inaccessible areas);
- > Charging device in package ИБЯЛ.413955.012;
- > Accumulator unit ИБЯЛ.563511.004.