

# MINOR 3.3

DETERMINATION OF THE MINIMUM IGNITION ENERGY OF DUST/AIR MIXTURES

Model: MINOR 3.3

ver. 1, 2019

## STANDARD REFERENCES:

- EN 13821 Potentially explosive atmospheres. Explosion prevention and protection. Determination of minimum ignition energy of dust/air mixtures
- ASTM E 199: Standard Test Method for Minimum Ignition Energy of a Dust Cloud in Air
- ISO/IEC 80079-20-2:2016 Explosive atmospheres. Material characteristics. Combustible dusts test methods



**MINOR 3.3 WAS DESIGNED TO TEST TOXIC DUSTS AND WORK INSIDE THE HERMETIC SPACE.**

## SPECIFICATION:

Test vessel	Hartmann glass tube
Ignition delay	control range: 20-350 [ms]
Ignition time delay	real time measurement
Spark energy control:	front panel adjustment
Energies [mJ]:	1, 3, 10, 30, 100, 300, 1000
optional [mJ]:	50, 500, 3000 [mJ]
Working modes:	PC control mode or manual mode
Dimensions:	
[mm]	900 (W) x 550 (D) x 700 (H)
[in]	35.5" (W) x 21.5" (D) x 28" (H)
Spark energy check	built-in energy control system
Moving electrode system	energies $\geq 30$ mJ upwards

2 types of sparks:	inductive / not inductive
Ventilation outlet:	$\varnothing 100$ - $\varnothing 150$ mm (4in - 6in)
Injection pressure:	front panel adjustment
Body:	stainless steel
PC program:	ANKOdustMIE® software
Mains / Power:	230V or 110V, 500 W max.
Weight:	100kg
Available services:	Installation assistance, training on-site, custom design
Spare parts:	This apparatus is supplied with a set of spare parts for a minimum of one year of use.

The information given in this document represents the state of engineering at the time of publishing. We reserve the right to make modifications to above specifications.