

Troxex TX6383

Intrinsically Safe Flammable Gas Detector Specification

CORE DESCRIPTION

The Trolex TX6383 is an intrinsically safe flammable gas detector engineered for continuous environmental monitoring in hazardous industrial and underground mining environments. Utilizing poison-resistant pellistor or infrared sensing technology, it accurately measures combustible gas concentrations (such as methane or hydrocarbons) up to 100% LEL or 0-100% v/v. Before installation, verify the target gas calibration, power supply limits (7.5-16.5 VDC), output signal type (0.4-2V, 4-20mA, or RS485), and hazardous area ATEX/IECEx certification parameters.

TECHNICAL SPECIFICATIONS

Parameter Name	Specification Value	Unit
Sensing technology	Poison-resistant Pellistor or Infrared (IR)	—
Target gases	Methane (CH4), hydrocarbons, and flammable gases	—
Protection type	Intrinsically Safe (Ex ia / Ex ib)	—
Measuring range	0-100% LEL / 0-100% v/v	—
Output signal	0.4-2 V / 4-20 mA / RS485 Modbus	—
Supply voltage	7.5 to 16.5	VDC
Operating temperature range	-20 to 50	°C
Ingress protection	IP65	—
Housing material	High-impact molded polymer	—
Hazardous area rating	ATEX / IECEx certified	—