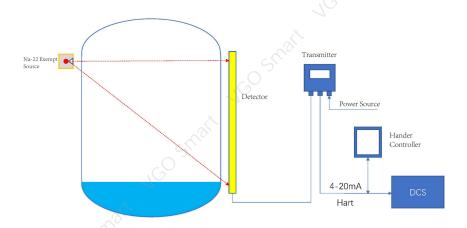


Na-22 Nuclear Exempt Level Measurement (DPRO-66)

Na-22 Level Measurement gives full play to the technical advantages of VGO Intelligence in the field of industrial nuclear measurement technology, so that exempt grade Na-22 radioactive source can be used in special material level measurement occasions. Because of the use of radioactive sources with exempted activity, customers can purchase and use nuclear material level meters without having to go through environmental procedures. Suitable for high temperature, high pressure or vacuum and other extreme environment, corrosion, abrasion, high viscosity, highly toxic media limit monitoring, products possess fast response, high reliability, low radiation, high safety, environmental protection exemption, environmental assessment exemption, free from environmental regulation.

Ultra High Sensitivity Level Measurement System

Adopt DET-7000 or DET9000 series ultra-high sensitivity detector and intelligent transmitter TRA-9861 to detect and analyze low-intensity gamma rays of Na-22 through the pipe and medium, the system can directly output medium density/concentration, it can also output mass flow rate with volume flow meter.





Product Features

☐ Users do not need to go through environment	al procedures when using exempt
radioactive sources.	
☐ Equipped with 4.3-inch HD LCD screen, Ch	inese interface, simple operation,
smooth operation.	
☐ Advanced friendly user interface, with de	etailed calibration, measurement,
diagnostic information.	
☐ Magnetic switch button can be used to operate	without opening the cover of the
instrument, especially suitable for dangerous applications	cations.
□Optional continuous level, level switch alarm ou	tput and other measurement output
mode	
□ Intelligent instrument, with temperature monito	ring, fault self-diagnosis, radiation
attenuation automatic compensation and other fund	etions.
☐ Powerful extension function, support manufa	acturers remote diagnosis, remote
debugging.Through PROWIN debugging softwar	e, one-key back up and restore of
system parameters are realized to ensure data secur	rity.
☐ The instrument can be controlled remotely to f	urther enhance the automation and
safety level of the factory.	
☐ Through PROWIN debugging software, the sys	stem parameters can be backed up
and restored with one click to ensure data security	
☐ The use of long detectors can better improve	
I the use of long detectors can better impro	ve the linearity of material level
measurement, significantly reduce the number of	



Application

Ore Pulp: Aluminium Ore `Copper Ore `Gold Ore `Potassic Salt Ore `Phosphorite `

Coal Mine \ Calcium Deposits \ Lime

Chemical: Acid Content Polymer Synthesis of Ammonia & Urea

Pulp & Paper: White Liquor \ Black Liquor \ Green Liquor

Oil Refining: Crude Oil Density \cdot Product Oil Density

Food: Soy Sauce \ Tomato Sauce \ Orange Juice \ Starch \ Syrup

Water Treatment: Mud

Technical Parameters

Technical Parameters			
Performance Specification	Measuring Range	The measurement range of a single detector is 0-3000mm; A larger range can be achieved by adding detectors, up to 16 detectors.	
	Measuring Accuracy	Full Range's ±1%	
	Electromagnetism/Radio-frequency Interference	The test has no effect on the output	
	Power Effection	Within the power supply range, no effect on operation	
Functionality Specification	Power Source	230V AC±%10 (50/60HZ) 18-32V DC	
	Power Dissipation	Maximum 25W	
	Output Signal	4-20mA+Hart,used for density, concentration or mass flow output 2 channel relay output for process alarm or fault alarm	
	Communication Interface	2 channel RS485	
	Input Signal	4-20mA, used for flow signal input	
	Operating Temperature	-40°C-80°C , recommended to use water-cooled jacket when the temperature exceeds 80°C for a long time	
	Protection Level	IP65/66	
	Explosive-proof Grade (Optional)	EXIICT4	
	Linearization	Single point/multi-point calibration	



VGO Smart/Manufacturer

	Time Constant	1-999s
Detector	DET-7000 or DET-9000	Ultra high sensitivity detector
	Electrical Connection	Aviation plug、M20 1.5、1/2NPT
	Shell Material	304、316L stainless steel
Radioactive Source	Category	Na-22
	Activity	$\leq 27 \mu \text{Ci(in line with the national environmental}$ protection exempted activity)
	Half-life Period	2.6 Years
	Ray Type	γ Rays
Source Container	Material	Cast iron shell+ Lead shielding material
	Dimension	Φ150×80
	Weight	10Kg

System Composition:







TRA-9861Transmitter



DET-7000 Ultra-high sensitivity

point detector



DET-9000 Ultra high sensitivity

long detector

Contact Us

Nanjing VGO Smart Technology Co.,LTD

Website:www.vgosmart.com

Address:Building 4,3 rd floor, Liando U Valley III,7 Tonglian Road, Jiangning District, Nanjing, China

TEL: +86-25-52134872 Phone No.: +86-15295785359 FAX: +86-25-52169557