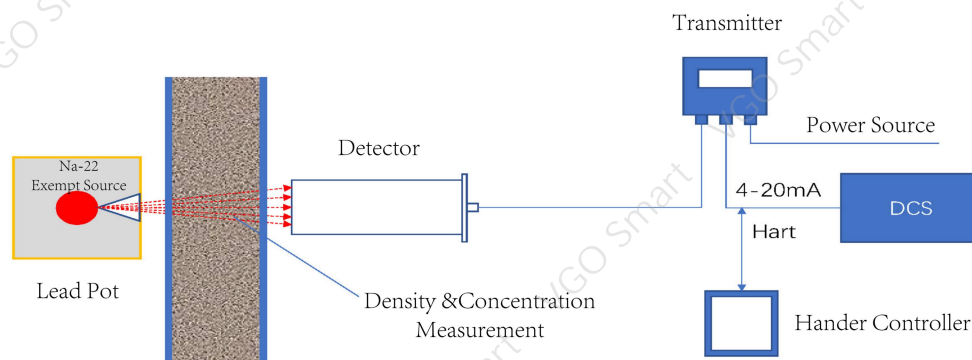


Na-22 Nuclear Exempt Density Measurement (DPRO-66)

Na-22 Nuclear Exempt Density Measurement (DPRO-66) are the latest application achievement of VGO Smart in industrial nuclear measurement technology. Unlike conventional unclear Density Meters, which use CS137 radioactive sources, the Nuclear Density Meters (DPRO-66) can use an activity free Na-22 radioactive source, depending on VGO Smart Tech to master ultra-sensitive radiation measurement technology and cutting-edge software processing technology. Because of the use of activity-free radioactive sources, customers can purchase and use nuclear Density and Level Meters without having to go through environmental procedures.

Ultra High Sensitivity Density Measurement System

Adopt DET-7000 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 flowmeter.



Product Features

Users do not need to go through environmental procedures when using exempt radioactive sources.

Equipped with 4.3-inch HD LCD screen, Chinese interface, simple operation, smooth operation.

Advanced friendly user interface, with detailed calibration, measurement, diagnostic information.

Magnetic switch button can be used to operate without opening the cover of the instrument, especially suitable for dangerous applications.

Optional density, concentration, mass flow rate and other measurement output modes.

Intelligent instrument, with temperature monitoring, fault self-diagnosis, radiation attenuation automatic compensation and other functions.

Powerful extension function, support manufacturers remote diagnosis, remote debugging.

Through PROWIN debugging software, one-key back up and restore of system parameters are realized to ensure data security.

The instrument can be controlled remotely to further enhance the automation and safety level of the factory.

Market/Application	
<ul style="list-style-type: none"> Ore Pulp: Aluminium Ore、Copper Ore、Gold Ore、Potassic Salt Ore、Phosphorite、Coal Mine、Calcium Deposits、Lime 	<ul style="list-style-type: none"> 化工：Chemical：Acid Content、Polymer、Synthesis of Ammonia & Urea
<ul style="list-style-type: none"> Water Treatment: Mud 	<ul style="list-style-type: none"> Pulp & Paper: White Liquor、Black Liquor、Green Liquor
<ul style="list-style-type: none"> Oil Refining: Crude Oil Density、Product Oil Density 	<ul style="list-style-type: none"> Food：Soy Sauce、Tomato Sauce、Orange Juice、Starch、Syrup

Technical Parameters		
Performance Specification	Measuring Range	Density: 0.1-3.5g/ml
	Measuring Accuracy	Full Range's $\pm 1\%$
	Electromagnetism/Radio-frequency Interference	The test has no effect on the output
	Power Effecton	Within the power supply range, no effect on operation
Functionality Specification	Power Source	230V AC $\pm 10\%$ (50/60HZ) 18-32V DC
	Power Dissipation	25W 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	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
	Time Constant	1-999s
Detector	DET-7000	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	$\Phi 150 \times 80$
	Weight	10Kg

Order Information			
Instrument Order			
Order No.	Illustration		
DPRO-66-DET-7000	Nuclear Density Meters (DPRO-66)		
Optional Accessories & Accessories			
Type	Illustration		
LDU600	In-place display unit		
DSU600	Manual Handler		
PROWIN	PC computer debugging software		
E9860-1	Explosive-proof shell		
DTU300	Intelligent data communication terminal, support wireless remote assistance		
Please provide the following information			
Equipment Parameter			
Pipe Outside Diameter	Wall Thickness/ Material Density	Thermal Insulation Layer Thickness/ Material Density	Lining Thickness /Material Thickness
mm	mm/ g/cm ³	mm/ g/cm ³	mm/ g/cm ³
Technological Parameter			
Liquid Density	Mini g/cm ³	General g/cm ³	Max g/cm ³
Pulp Density	Solid g/cm ³	Liquid g/cm ³	Mini Max g/cm ³ g/cm ³
Temperature Range	Subject Temperature °C	Environment Temperature °C	Pipe Pressure bar
If the pipe is bubbling or not filled, please indicate		Claimed Accuracy	


DET-7000 Detector

TRA-9861 Intelligent Transmitter

Na-22 Exemption Source

Our Equipment



Contact Us

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