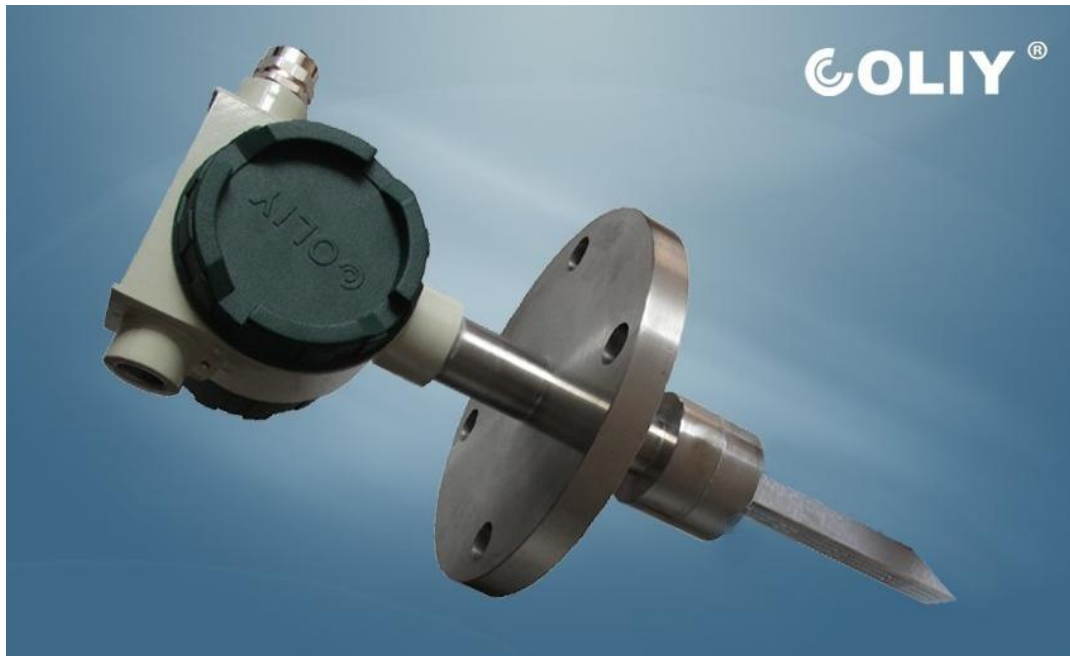


On-line solid moisture analyzer S300



Description

On-line solid moisture analyzer S300 is at present the most advanced product for moisture content measurement of solid materials with characteristics of sturdiness and durability as well as high sensitivity. Its accuracy is only minutely affected by the material's color, density and grain. S300 employs the newest technology of moisture measurement and all parts are waterproof and dustproof while the solid stainless steel shell can resist sudden impact allowing the unit to work for long periods under severe environmental conditions. Available with several methods of installation it's easy to operate and debug with high precision and wide application.

On-line solid moisture analyzer S300 adopts the principle of ultra-high frequency electromagnetic wave: to utilize the resonance characteristics of L-band of the electromagnetic to detect the moisture content. By detecting the resonant frequency and peak width of the object and at the same time making temperature compensations and adjustments the medium's moisture content can be measured accurately. It is currently the world's most advanced instrument measuring moisture content unit surpassing those utilizing other sensing principles in terms of resolution range and reliability.

On-line solid moisture analyzer S300 is available in several different model configurations

with resolution up to 0.01% and range to be selected manually between 0-30% enabling its wide application.

S300 solid Moisture analyzer uses the fifth generation of patent probe with temperature sensor inside. It makes accurate temperature adjustment and compensation through particular dynamic special calibration software. It is the built-in three-dimensional demarcated data module that makes operation and demarcation easy. S300 solid Moisture analyzer passed CE certification for both host and accessories.

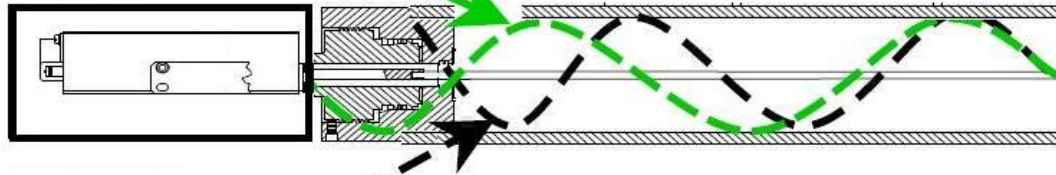
Features

- Advanced measuring principle
- High reliability
- High resolution
- Temperature auto-compensation
- Explosion proof design
- Simple calibration
- Flexible installation
- CE certification
- High accuracy
- Stable and durable maintenance free
- Manual selection of range
- ISO 9000 manufacture standard
- Broad technical support
- Wide application suitable for almost all solid materials

Working principle

The change of water volume in the liquid leads to the corresponding changes of frequency and phase of high-spectrum electronic-magnetic

LESS WATER



MORE WATER

$$\text{EQUATION : } W = K_1(f_1 \operatorname{tg} \alpha + a)^3 + K_2(f_2 \operatorname{tg} \beta + b)^2 + K_3(f_3 \operatorname{tg} \gamma + c) + K_4$$



Specifications

Range	Choose between 0-30%	
Resolution(Laboratory)	0.01%	(range among:0%-10%)
	0.1%	(range above 10%)
Accuracy(Laboratory)	0.05%	(range under 1%)
	0.2%	(range among 1%-10%)
	0.5%	(range above 10%)
Installation	2" NPT screw or standard flange	
Depth of penetration	Standard 245mm or customized	
Weight	About 10 Kg (depending on installation style and length)	
Probe max.temp.	Standard 80°C, optional for high temperature 150°C	
Temperature compensation	Yes (If the temperature of the measuring solid varies broadly, temperature compensation will be necessary.)	
Probe material	304 or 316 stainless steel or titanium	
Explosion proof	Explosion suppression DIICT6(optional)	
Output	RS-485, 4-20mA	
Power	24VDC	

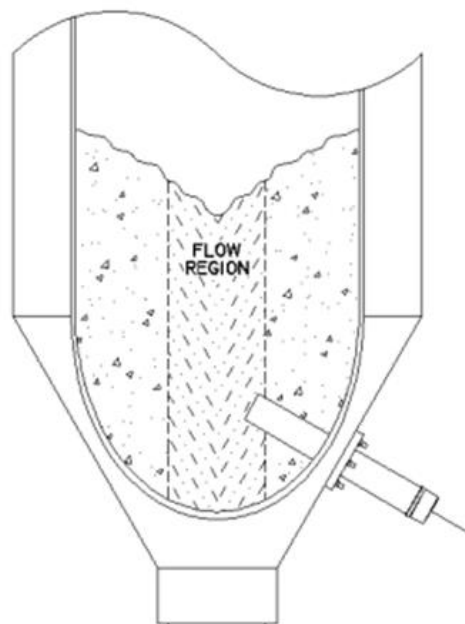
Notes:

1. Measurement accuracy has nothing to do with the color of the solid.
2. Probe and range can be customized to the clients' special requirements.
3. The product specifications are subject to change without notice along with the technology progress.
4. For further information please contact our office. We will reply to your inquiries and provide after-sales services within 48 hours. You can contact us any time.

Guide of model selection

S300	-A	-B	-C	-D	-E	-F
-A Range (optional)						
-B temperature Default: <80°C HT: <300°C						
-C : connection method Default: screw thread F: flange						
-D probe material Default: 304 stainless steel 316: 316 stainless steel AF: durable stainless steel TI: titanium						
-E Default: non explosion proof EX: explosion proof						
						-F suffix
S300	-A	-B	-C	-D	-E	-F

Example: S300 - 10% - HT - F - TI



Installation drawing



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.