Detaylı Bilgi İçin Ürün Resmine Tıklayınız

Sıvılarda nem içeriğinin On-line ölçümü, Michell Instruments Sıvı Analyzer Liquidew I.S. Moisture ile doğ

Kullanım alanları: Petrokimyasal proses sıvıları, katalizör üretimleri, polimer üretiminin korunması,

Ürün Özellikleri

- Basit, düşük maliyetli operasyon ve kolay bakım
- Uyarlama işlevselliği, kolay varolan örnekleme veya dağıtım sistemlerine entegre etme
- 0,01 ppmW doygunluk noktasında sıvı ölçümü (yüksek bütünlüklü nem)
- Dört adede kadar tamamen bağımsız ölçüm kanalı
- Uzun bir süre içinde birçok polar olmayan sıvıların kesintisiz işlemi için sağlam tasarım
- İki 4-20 mA yapılandırılabilir çıkış ve dijital Modbus RTU tabanlı iletişim
- Güvenilir maliyetli kalibrasyon için Michell Kalibrasyon Değişim Servisi Değiştirilebilir sensör elema
- NIST ve NPL izlenebilir kalibrasyon
- EExd sürümü mevcut

Teknik Özellikler

Sensörler

Sensor Technology	Michell Ceramic Moisture Sensor
Sensor Version	Easidew PRO I.S
Measurement Range	0.001 to 1000 ppmw

Higher range on request, actual range dependent on solubility of sample fluid

Calibration Range	-100 to +20°Cdp

Calibration

Traceable to British (NPL) and American (NIST) National Humidity Standards

Accuracy	Dew point: ±1°C between -60 and +20°Cdp

Moisture content: ±10% of reading
Dew point: ±2°C between -60.1 and -100°Cdp

Resolution

0.1°C between +20 and -100°Cdp

Analysis Pressure	Up to 45 MPa (450 barg)

Operating Temperature

-20 to +60°C

Sample Flow Rate	Min 0.01 l/min Max 10 l/min 0.1 to 0.3 l/min recommended
Temperature Measurement	Pt100
Temperature Measurement Range	-20 to +70°C
Temperature Measurement Accuracy	±0.3°C @ 0°C

Sertifikasyon

Hazardous Area Certification	ATEX - II 1 G Ex ia IIC T4 Ga (-20°C = Ta = +70°C) FM - IS / I / 1 / ABCD / T4 Ta = +70°C CSA - IS Class I Div 1 Groups ABCD T4 +70°C IECEx - Ex ia IIC T4 Ga (-20°C = Ta = +70°C) GOST Ex
Pattern Approval	GOST-R, GOST-K

Kontrol Ünitesi

Display	Two line 6-digits LED, displaying moisture content / dew point (user toggle) a
Analogue Output	Two 4-20 mA (max load 500 Ω) User-configured for parameter, unit and range
Digital Output	RS485 Modbus RTU
Display Mode	Moisture content (ppmw) Dew point (°C or °F) Temperature (°C or °F)
Display Resolution	0.1°Cdp, 0.1°Fdp, 0.001 ppmw, 0.1°C temp
Alarms	Four alarm relays. Control action and set-point are user-programmable Two Form C contacts rated 10 A, 240 V AC or 8 A, 24 V DC. Non-inductive load Two Form A contacts rated 5 A, 240 V AC or 4 A, 24 V DC. Non-inductive load
I.S. Barriers	Galvanic isolation type, integrated to Control Unit
Power Supply	85 to 265 V AC, 50/60Hz or 10 to 72 V DC 10 W max power consumption

Enclosure	19" sub rack unit

Dimensions 132 x 483 x 256mm (h x w x d)
100mm minimum clearance depth for cables and vents

Operating Environment	Indoor, safe area, 0 to +50°C, < 90% RH

Birinci Sınıf Örnek Alma Sistemi

Enclosure	304 stainless steel (EN1.4301) enclosure

Option for complete enclosure in 316 stainless steel (EN1.4401)
All fixtures stainless steel
Galvanised steel internal mounting plate
Open panel version available for indoor installation
Dimensions 800 x 600 x 300mm (h x w x d)

Enclosure Mounting	Stainless steel wall mounting brackets
Enclosure Ingress Protection	IP66
Enclosure Temperature Control	Heater/thermostat options for fixed set-point +20°C or

adjustable set-point range 0 to control 50°C

Heater Power Supply	110/120 or 220/240/255 V AC, 50/60 Hz.

Power consumption 100 W max

Operating Environment	Shaded position, on or off shore, -20 to +40°C (-40 to +60°C max transient)

Enclosure cooling option recommended for climate ambient > +50°C

Sample Cooling Option	

Recommended for process fluid temperatures > +40°C
Plant water supply required ≤ +30°C