



# Delta C Technologies Inc. DC-1510-1"-NPT Specifications

## General

Principle of Operation	Digital Capacitance
Temperature Variation	Compensated
Water in Oil Range	0.0 - 50.00% (0 – 500,000 ppm)
Minimum Sample Flow Rate	4 USGPM (0.015 m <sup>3</sup> /min) for Oil
	9 USGPM (0.034 m <sup>3</sup> /min) for Condensate
Resolution	0.001% (10 ppm)
Accuracy	0.01% (100 ppm)
Repeatability	0.01% (100 ppm) Absolute
Temperature Stability	0.0015% (15 ppm) Water/°C
Temperature Sensor	1000 Ohm Platinum RTD
Temperature Compensation Range	32°F – 300°F (0°C – 150°C) Linear
Shipping Weight	43 lbs (19.5 kg)
Shipping Dimensions	10" x 11" x 34" (26 cm x 28 cm x 86 cm)

## Mechanical

Construction Material	Type 316 SS, Wetted Parts
Max. Working Pressure	2160 psig @ 100°F (15 Mpa @ 38°C)
Max. Fluid Temperature	275°F (135°C)
Max. Ambient Temperature	185°F (85°C)
Operating Temperature for Electronics	-40°F to 185°F (-40°C to 85°C)
Storage Temperature for Electronics	-40°F to 185°F (-40°C to 85°C)
Process Connection	1" NPT
Specific Volume	0.070 US Gallon (235 ml)
Sensor Cross Section Flow Area	Approx. 0.75 Inch <sup>2</sup> (4.84 cm <sup>2</sup> )

## Electrical

Power Required	18 – 24 VDC @ 150 mA Floating (Grounded or Ungrounded)
Electrical Connections	(1) M20, (1) 1" NPT, (1) ¾" NPT
Corrosion Protection	NACE MR-0175-2003, Compliant for Sour Service
Humidity Protection	Conformal Coating on CB

## Output

Transmitter Mounting	Integral with Sensor (No Cables Required)
Analog Current	4 20 mA DC, Isolated, Self-powered
Maximum Load	600 Ohms
Isolation Voltage	500 Volts Peak
Relay Contacts	SPST-NO 2 Amp @ 24 VDC, Non-inductive
Adjustable Delay	0 – 43 Million Seconds
Adjustable Hysteresis	0 – 49.90% (0 – 499,000 ppm) water

## Terminal/Computer Interface

RS-232C	Full Duplex, Max. 50 Metres
Speed	9600 Baud
Word Size	8 Bits
Parity	None
Stop Bits	One
RS-485	Half Duplex, Max. 1500 Metres