

## MODEL 414 TRUE-UNION CONDUCTIVITY SENSOR Specification

Specifications	Model 414-0.01	Model 414-0.01-12	Model 414-0.1	Model 414-0.1-12	Model 414-1.0	Model 414-1.0-12
<b>Measurement Range</b>	0 µS to 100 µS	0 µS to 100 µS	0 µS to 1 000 µS	0 µS to 1 000 µS	0 µS to 10 000 µS	0 µS to 10 000 µS
<b>Temperature Range</b>	0 °C to 90 °C (32 °F to 194 °F)	0 °C to 130 °C (32 °F to 266 °F)	0 °C to 90 °C (32 °F to 194 °F)	0 °C to 130 °C (32 °F to 266 °F)	0 °C to 90 °C (32 °F to 194 °F)	0 °C to 130 °C (32 °F to 266 °F)
<b>Pressure Range</b>	0 kPa to 689 kPa (0 psi to 100 psi)	0 MPa to 1.21 MPa (0 psi to 175 psi)	0 kPa to 689 kPa (0 psi to 100 psi)	0 MPa to 1.21 MPa (0 psi to 175 psi)	0 kPa to 689 kPa (0 psi to 100 psi)	0 MPa to 1.21 MPa (0 psi to 175 psi)
<b>Sensing Element</b>	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Carbon	Carbon
<b>Wetted Materials</b>	CPVC, Stainless Steel, Viton	PVDF, Stainless Steel, Viton	CPVC, Stainless Steel, Viton	PVDF, Stainless Steel, Viton	CPVC, Carbon	PVDF, Carbon
<b>Temperature Sensor</b>	1000 Ω PT RTD	1000 Ω PT RTD	1000 Ω PT RTD	1000 Ω PT RTD	1000 Ω PT RTD	1000 Ω PT RTD
<b>Process Connections</b>	0.5 in FNPT submersion pipe mount; Universal	0.5 in FNPT submersion pipe mount; Universal	0.5 in FNPT submersion pipe mount; Universal	0.5 in FNPT submersion pipe mount; Universal	0.5 in FNPT submersion pipe mount; Universal	0.5 in FNPT submersion pipe mount; Universal
<b>Pressure &amp; Temperature Limits at Insertion</b>	<i>Option -26:</i> 414 kPa at 90 °C (60 psi at 194 °F) <i>Option -28:</i> 689 kPa at 150 °C (100 psi at 302 °F) <i>Option -29:</i> 689 kPa at 110 °C (100 psi at 230 °F)	<i>Option -26:</i> 414 kPa at 90 °C (60 psi at 194 °F) <i>Option -28:</i> 689 kPa at 150 °C (100 psi at 302 °F) <i>Option -29:</i> 689 kPa at 110 °C (100 psi at 230 °F)	<i>Option -26:</i> 414 kPa at 90 °C (60 psi at 194 °F) <i>Option -28:</i> 689 kPa at 150 °C (100 psi at 302 °F) <i>Option -29:</i> 689 kPa at 110 °C (100 psi at 230 °F)	<i>Option -26:</i> 414 kPa at 90 °C (60 psi at 194 °F) <i>Option -28:</i> 689 kPa at 150 °C (100 psi at 302 °F) <i>Option -29:</i> 689 kPa at 110 °C (100 psi at 230 °F)	<i>Option -26:</i> 414 kPa at 90 °C (60 psi at 194 °F) <i>Option -28:</i> 689 kPa at 150 °C (100 psi at 302 °F) <i>Option -29:</i> 689 kPa at 110 °C (100 psi at 230 °F)	<i>Option -26:</i> 414 kPa at 90 °C (60 psi at 194 °F) <i>Option -28:</i> 689 kPa at 150 °C (100 psi at 302 °F) <i>Option -29:</i> 689 kPa at 110 °C (100 psi at 230 °F)
<b>Electrode Dimensions</b>	<i>Length:</i> 16.5 cm (6.5 in) <i>Diameter:</i> 2.3 cm (0.9 in)	<i>Length:</i> 16.5 cm (6.5 in) <i>Diameter:</i> 2.3 cm (0.9 in)	<i>Length:</i> 16.5 cm (6.5 in) <i>Diameter:</i> 2.3 cm (0.9 in)	<i>Length:</i> 16.5 cm (6.5 in) <i>Diameter:</i> 2.3 cm (0.9 in)	<i>Length:</i> 16.5 cm (6.5 in) <i>Diameter:</i> 2.3 cm (0.9 in)	<i>Length:</i> 16.5 cm (6.5 in) <i>Diameter:</i> 2.3 cm (0.9 in)
<b>Sensor Cable</b>	4 conductor plus shield; 1.5 m (5.0 ft) in length	4 conductor plus shield; 1.5 m (5.0 ft) in length	4 conductor plus shield; 1.5 m (5.0 ft) in length	4 conductor plus shield; 1.5 m (5.0 ft) in length	4 conductor plus shield; 1.5 m (5.0 ft) in length	4 conductor plus shield; 1.5 m (5.0 ft) in length
<b>Weight</b>	0.6 kg (1.3 lb)	0.6 kg (1.3 lb)	0.6 kg (1.3 lb)	0.6 kg (1.3 lb)	0.6 kg (1.3 lb)	0.6 kg (1.3 lb)
<b>Shipping Weight</b>	1.4 kg (3.0 lb)	1.4 kg (3.0 lb)	1.4 kg (3.0 lb)	1.4 kg (3.0 lb)	1.4 kg (3.0 lb)	1.4 kg (3.0 lb)
<b>Shipping Dimensions</b>	30 cm × 23 cm × 23 cm (12 in × 9 in × 9 in)	30 cm × 23 cm × 23 cm (12 in × 9 in × 9 in)	30 cm × 23 cm × 23 cm (12 in × 9 in × 9 in)	30 cm × 23 cm × 23 cm (12 in × 9 in × 9 in)	30 cm × 23 cm × 23 cm (12 in × 9 in × 9 in)	30 cm × 23 cm × 23 cm (12 in × 9 in × 9 in)