



Instrumentos & Mediciones
Industriales S.A.S.

Contacto GINA PAOLA BUSTOS
Profesional Universitario
Empresa INSTITUTO NACIONAL DE METROLOGIA
Dirección Avenida Carrera 5 No 26-55 Int 2 Can
Teléfono 2542222 ext 1618
Email gpbustos@inm.gov.co

Fecha 28/08/2023

Cotización N° 9218B

Nuestra Ref.: Instrumentos y Mediciones Industriales S.A.S.

Adriana Salazar Cárdenas
Email salazar.adriana@insymed.com
Cel 310 5652619

ITEM	REF.	CANTIDAD	DESCRIPCION		VALOR UNITARIO	VALOR TOTAL																																																																																														
1	1762-20	2	SPRT AccuMac AM1760-20 Nominal 25 Ω			\$ 19.575.000	\$ 39.150.000																																																																																													
			<table><tr><td>Model</td><td colspan="2">1762</td><td colspan="2">1760</td></tr><tr><td>Temperature Range</td><td colspan="4">-200°C to 670°C</td></tr><tr><td>Nominal Resistance at 0°C</td><td colspan="2">25 Ω</td><td colspan="2">100 Ω</td></tr><tr><td>Temperature Coefficient</td><td colspan="4">0.003925 Ω/Ω/°C</td></tr><tr><td>Accuracy</td><td colspan="4"><0.006°C at 0.01°C</td></tr><tr><td>Long Term Drift at 0.01°C*</td><td colspan="4"><0.004°C at TPW after 100 hours at 661°C</td></tr><tr><td>Short Term Stability</td><td colspan="4"><0.002°C</td></tr><tr><td>Thermal Shock</td><td colspan="4"><0.002°C after 10 thermal cycles from minimum to maximum temperatures</td></tr><tr><td>Self-heating</td><td colspan="2">0.0015°C at 1 mA current</td><td colspan="2">0.0015°C at 0.5 mA current</td></tr><tr><td>Response Time**</td><td colspan="4">9 seconds</td></tr><tr><td>Measurement Current</td><td colspan="4">0.5 mA or 1 mA</td></tr><tr><td>Sensor Length</td><td colspan="4">42 mm</td></tr><tr><td>Sensor Location</td><td colspan="4">5 mm from tip</td></tr><tr><td>Insulation Resistance</td><td colspan="4">>1000 MΩ at room temperature</td></tr><tr><td>Sheath Material</td><td colspan="4">Inconel™</td></tr><tr><td>Sheath Dimensions</td><td colspan="2">1762-20: 0.25in (OD) x 20in (L) 1762-12: 0.25in (OD) x 12in (L)</td><td colspan="2">1760-20: 0.25in (OD) x 20in (L) 1760-12: 0.25in (OD) x 12in (L)</td></tr><tr><td>External Leads</td><td colspan="4">Teflon™ insulated copper wire, 4 leads, 2 meters</td></tr><tr><td>Handle Dimension</td><td colspan="4">15mm (OD) x 65mm (L)</td></tr><tr><td>Handle Temperature Range</td><td colspan="4">-50°C to 180°C</td></tr></table>	Model	1762		1760		Temperature Range	-200°C to 670°C				Nominal Resistance at 0°C	25 Ω		100 Ω		Temperature Coefficient	0.003925 Ω/Ω/°C				Accuracy	<0.006°C at 0.01°C				Long Term Drift at 0.01°C*	<0.004°C at TPW after 100 hours at 661°C				Short Term Stability	<0.002°C				Thermal Shock	<0.002°C after 10 thermal cycles from minimum to maximum temperatures				Self-heating	0.0015°C at 1 mA current		0.0015°C at 0.5 mA current		Response Time**	9 seconds				Measurement Current	0.5 mA or 1 mA				Sensor Length	42 mm				Sensor Location	5 mm from tip				Insulation Resistance	>1000 MΩ at room temperature				Sheath Material	Inconel™				Sheath Dimensions	1762-20: 0.25in (OD) x 20in (L) 1762-12: 0.25in (OD) x 12in (L)		1760-20: 0.25in (OD) x 20in (L) 1760-12: 0.25in (OD) x 12in (L)		External Leads	Teflon™ insulated copper wire, 4 leads, 2 meters				Handle Dimension	15mm (OD) x 65mm (L)				Handle Temperature Range	-50°C to 180°C					
Model	1762		1760																																																																																																	
Temperature Range	-200°C to 670°C																																																																																																			
Nominal Resistance at 0°C	25 Ω		100 Ω																																																																																																	
Temperature Coefficient	0.003925 Ω/Ω/°C																																																																																																			
Accuracy	<0.006°C at 0.01°C																																																																																																			
Long Term Drift at 0.01°C*	<0.004°C at TPW after 100 hours at 661°C																																																																																																			
Short Term Stability	<0.002°C																																																																																																			
Thermal Shock	<0.002°C after 10 thermal cycles from minimum to maximum temperatures																																																																																																			
Self-heating	0.0015°C at 1 mA current		0.0015°C at 0.5 mA current																																																																																																	
Response Time**	9 seconds																																																																																																			
Measurement Current	0.5 mA or 1 mA																																																																																																			
Sensor Length	42 mm																																																																																																			
Sensor Location	5 mm from tip																																																																																																			
Insulation Resistance	>1000 MΩ at room temperature																																																																																																			
Sheath Material	Inconel™																																																																																																			
Sheath Dimensions	1762-20: 0.25in (OD) x 20in (L) 1762-12: 0.25in (OD) x 12in (L)		1760-20: 0.25in (OD) x 20in (L) 1760-12: 0.25in (OD) x 12in (L)																																																																																																	
External Leads	Teflon™ insulated copper wire, 4 leads, 2 meters																																																																																																			
Handle Dimension	15mm (OD) x 65mm (L)																																																																																																			
Handle Temperature Range	-50°C to 180°C																																																																																																			
5		1	Termómetro de precisión AM8060			\$ 23.760.000	\$ 23.760.000																																																																																													
			<table><tr><td>Model</td><td colspan="3">8060</td></tr><tr><td>Temperature Range</td><td colspan="3">-260°C to 850°C</td></tr><tr><td>Accuracy (meter only)</td><td colspan="3">±0.01°C at -200°C ±0.008°C at 0°C ±0.009°C at 232°C ±0.01°C at 420°C ±0.015°C at 660°C</td></tr><tr><td>Resolution</td><td colspan="3">0.001°C (0.0001Ω) over full range</td></tr><tr><td>Probe</td><td colspan="3">Nominal Rtpw: 25 Ω or 100 Ω RTD, PRT or SPRT</td></tr><tr><td>Characterizations</td><td colspan="3">ITS-90 coefficients, Callendar-Van Dusen coefficients, IEC-751 (DIN 385)</td></tr><tr><td>Sample Interval</td><td colspan="3">1 second</td></tr><tr><td>Display</td><td colspan="3">2.7 inch OLED</td></tr><tr><td>Display Units</td><td colspan="3">°C, °F, Ω</td></tr><tr><td>Excitation Current</td><td colspan="3">1 mA, reversing</td></tr><tr><td>Operation Range</td><td colspan="3">15°C to 35°C</td></tr><tr><td>Thermometer Input Connectors</td><td colspan="3">Spade plug, banana plug or bare wire</td></tr><tr><td>Power Requirements</td><td colspan="3">100-240V</td></tr><tr><td>Dimensions</td><td colspan="3">180mm (W) x 65mm (H) x 200mm (D)</td></tr><tr><td>Weight</td><td colspan="3">0.3 kg (0.7 lbs)</td></tr></table>	Model	8060			Temperature Range	-260°C to 850°C			Accuracy (meter only)	±0.01°C at -200°C ±0.008°C at 0°C ±0.009°C at 232°C ±0.01°C at 420°C ±0.015°C at 660°C			Resolution	0.001°C (0.0001Ω) over full range			Probe	Nominal Rtpw: 25 Ω or 100 Ω RTD, PRT or SPRT			Characterizations	ITS-90 coefficients, Callendar-Van Dusen coefficients, IEC-751 (DIN 385)			Sample Interval	1 second			Display	2.7 inch OLED			Display Units	°C, °F, Ω			Excitation Current	1 mA, reversing			Operation Range	15°C to 35°C			Thermometer Input Connectors	Spade plug, banana plug or bare wire			Power Requirements	100-240V			Dimensions	180mm (W) x 65mm (H) x 200mm (D)			Weight	0.3 kg (0.7 lbs)																																							
Model	8060																																																																																																			
Temperature Range	-260°C to 850°C																																																																																																			
Accuracy (meter only)	±0.01°C at -200°C ±0.008°C at 0°C ±0.009°C at 232°C ±0.01°C at 420°C ±0.015°C at 660°C																																																																																																			
Resolution	0.001°C (0.0001Ω) over full range																																																																																																			
Probe	Nominal Rtpw: 25 Ω or 100 Ω RTD, PRT or SPRT																																																																																																			
Characterizations	ITS-90 coefficients, Callendar-Van Dusen coefficients, IEC-751 (DIN 385)																																																																																																			
Sample Interval	1 second																																																																																																			
Display	2.7 inch OLED																																																																																																			
Display Units	°C, °F, Ω																																																																																																			
Excitation Current	1 mA, reversing																																																																																																			
Operation Range	15°C to 35°C																																																																																																			
Thermometer Input Connectors	Spade plug, banana plug or bare wire																																																																																																			
Power Requirements	100-240V																																																																																																			
Dimensions	180mm (W) x 65mm (H) x 200mm (D)																																																																																																			
Weight	0.3 kg (0.7 lbs)																																																																																																			

RESUMEN ECONÓMICO DE LA OFERTA

SUB-TOTAL	\$ 62.910.000,00
19 %IVA	\$ 11.952.900,00
TOTAL (COL)	\$ 74.862.900,00

CONDICIONES DE VENTA

Precios: PESOS COLOMBIANOS
Plazo de entrega*: 90 días a partir del Anticipo
Validez: 30 días
Forma de pago: 50 % Anticipado 50% contra entrega.
Garantía 1 año contra efectos de fabricación.
La Garantía no incluye incorrecta manipulación por parte del usuario, trabajo fuera del rango o fuera de las especificaciones indicadas por el fabricante.
Entrega: En las instalaciones del INM.

Atentamente, Ing. ADRIANA SALAZAR