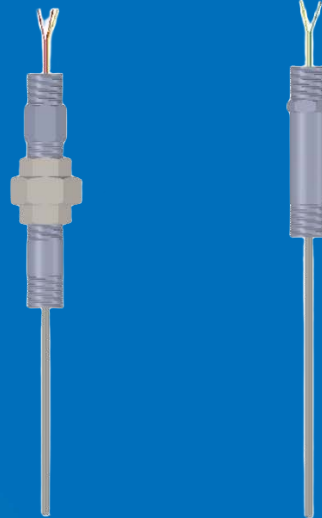


## S80 - LCD & S81 - LCD

- Accuracy of S80 - LCD meets IEC 60584 or ANSI MC 96.1
- Accuracy of S80 - LCD meets IEC 60751
- Adapt to multi-brand temperature transmitters
- Suitable for various types of thermowells



Chemical and Petrochemical Plants



Equipment

# Data Sheet

## S80 - LCD & S81 - LCD

### SPECIFICATIONS:

Stem Diameter:	6mm、8mm、1/4"
Stem Length:	Minimum: 100 mm Maximum: 100000 mm.
Sensor Type and Range:	<b>S80</b> Type J: -40 to +750°C Type E: -200 to +800°C Type K: -200 to +1100°C Type N: -200 to +1100°C <b>S81</b> Pt 100: -50 to +400°C Pt 100: -200 to +600°C
Wiring configuration:	<b>S80</b> Single or Duel <b>S81</b> 3-wire, 4-wire
Certification:	IECEX: Ex ia IIC T6 Ga
Accuracy:	<b>S81 (IEC 60751)</b> Class A: $\pm(0.15 + 0.0020 *  t (1))$ Class B: $\pm(0.30 + 0.0050 *  t (1))$

### S80 (IEC 60584-2)

	Type J	Type K	Type T	Type E	Type N
Class 1	$\pm 1.5^{\circ}\text{C}$ or $+0.0040x t ^{(1)}$	$\pm 1.5^{\circ}\text{C}$ or $+0.0040x t ^{(1)}$	$\pm 0.5^{\circ}\text{C}$ or $+0.0040x t ^{(1)}$	$\pm 1.5^{\circ}\text{C}$ or $+0.0040x t ^{(1)}$	$\pm 1.5^{\circ}\text{C}$ or $+0.0040x t ^{(1)}$
Class 2	$\pm 2.5^{\circ}\text{C}$ or $+0.0075x t ^{(1)}$	$\pm 2.5^{\circ}\text{C}$ or $+0.0075x t ^{(1)}$	$\pm 1.0^{\circ}\text{C}$ or $+0.0075x t ^{(1)}$	$\pm 2.5^{\circ}\text{C}$ or $+0.0075x t ^{(1)}$	$\pm 2.5^{\circ}\text{C}$ or $+0.0040x t ^{(1)}$
Class 3		$\pm 2.5^{\circ}\text{C}$ or $+0.0040x t ^{(1)}$	$\pm 1.0^{\circ}\text{C}$ or $+0.0150x t ^{(1)}$	$\pm 2.5^{\circ}\text{C}$ or $+0.0150x t ^{(1)}$	$\pm 2.5^{\circ}\text{C}$ or $+0.0150x t ^{(1)}$

### S80 (ANSI MC 96.1)

	Type J	Type K	Type T	Type E	Type N
Standard	$\pm 2.2^{\circ}\text{C}$ or $+0.0075x t ^{(1)}$	$\pm 2.2^{\circ}\text{C}$ or $+0.0075x t ^{(1)}$	$\pm 1.0^{\circ}\text{C}$ or $+0.0075x t ^{(1)}$	$\pm 1.7^{\circ}\text{C}$ or $+0.0050x t ^{(1)}$	$\pm 2.2^{\circ}\text{C}$ or $+0.0040x t ^{(1)}$
Special	$\pm 1.1^{\circ}\text{C}$ or $+0.0040x t ^{(1)}$	$\pm 1.1^{\circ}\text{C}$ or $+0.0040x t ^{(1)}$	$\pm 0.5^{\circ}\text{C}$ or $+0.0040x t ^{(1)}$	$\pm 1.0^{\circ}\text{C}$ or $+0.0040x t ^{(1)}$	$\pm 1.1^{\circ}\text{C}$ or $+0.0040x t ^{(1)}$

<sup>(1)</sup>Absolute Temperature °C

# Data Sheet

## S80 - LCD

<b>Ordering Code</b>	S80-LCD S 6 K 1 1 1 1 NRC R3 3 0 0 LN T														
<b>Type</b>															
<b>S</b>	Standard														S
<b>J</b>	Ex ia IIC T6														
<b>Stem Diameter</b>															
<b>6</b>	6mm													6	
<b>8</b>	8mm														
<b>T</b>	1/4"														
<b>Sensor Type</b>															
<b>E</b>	Type E (-200 to +800°C)														
<b>J</b>	Type J (-40 to +750°C)														
<b>K</b>	Type K (-200 to +1100°C)													K	
<b>N</b>	Type N (-200 to +1100°C)														
<b>Accuracy</b>															
<b>1</b>	Class 1, IEC 60584-2													1	
<b>2</b>	Class 2, IEC 60584-2														
<b>3</b>	Class 3, IEC 60584-2														
<b>A</b>	Standard, ANSI MC 96.1														
<b>B</b>	Special, ANSI MC 96.1														
<b>Junction</b>															
<b>1</b>	Ungrounded													1	
<b>2</b>	Grounded														
<b>Wiring configuration</b>															
<b>1</b>	Single													1	
<b>2</b>	Duel														
<b>Stem Material</b>															
<b>1</b>	AISI 316 / 1.4401													1	
<b>3</b>	Inconel <sup>®</sup> 600														
<b>Extension Type</b>															
Please see extension type table on page 5												NRC			
<b>Process Connection</b>															
<b>R3</b>	1/2" NPT-M													R3	
<b>M20</b>	M20x1.5-M														
<b>Extension line</b>															
<b>1</b>	Temperature transmitter with digital display														
<b>3</b>	PTFE 200mm													3	
<b>Certification</b>															
<b>0</b>	NA													0	
<b>X</b>	IECEX														
<b>Calibration Report</b>															
<b>0</b>	Without													0	
<b>3P</b>	Single,3 points														
<b>5P</b>	Single,5 points														
<b>3D</b>	Duel,3 points														
<b>5D</b>	Duel,5 points														
<b>Length Cable</b>															
<b>LN</b>	min.100 ~ max.100000mm													LN	
<b>Options</b>															
<b>T</b>	Label in stainless steel with tag														T

# Data Sheet

## S81 - LCD

<b>Ordering Code</b>		S81-LCD	1	6	A	A	B	A	NRC	R3	3	0	0	LN	T
<b>Type</b>															
1	Standard		1												
3	Ex ia IIC T6														
<b>Stem Diameter</b>															
6	6mm		6												
8	8mm														
T	1/4"														
<b>Sensor Type</b>															
1	Pt100														
<b>Accuracy</b>															
A	Class A Wire wound -100 to +450°C		A												
	Film resistor -30 to +300°C														
B	Class B Wire wound -196 to +600°C														
	Film resistor -50 to +400°C														
<b>Temperature Measurer</b>															
A	Film resistor		A												
B	Wire wound resistor														
B			B	Single, 3-wire											
C															
E	双支, 3线														
F	双支, 4线														
A	AISI 316L / 1.4404		A												
<b>NRC</b>															
R3	1/2" NPT-M		R3												
M20	M20x1.5-M														
1															
3	PTFE 200mm		3												
0			0												
X	IECEX														
0			0												
3P															
5P															
3D															
5D															
LN	min.100 ~ max.100000mm		LN												
T															
			T												

**S81 - LCD**

ITEM	DESCRIPTION
<b>NRC</b>	Nipple spring-loaded 2*1/2" NPT T=70mm
<b>NRMNC</b>	Nipple spring-loaded M20x1.5~1/2" NPT T=70mm
<b>NRMC</b>	Nipple spring-loaded 2*M20x1.5 T=70mm
<b>JRXC</b>	Nipple spring-loaded 1/2" NPT T=150mm
<b>NR</b>	Nipple spring-loaded 1/2" NPT T=40mm
<b>JRX</b>	Nipple spring-loaded 1/2" NPT T=120mm

