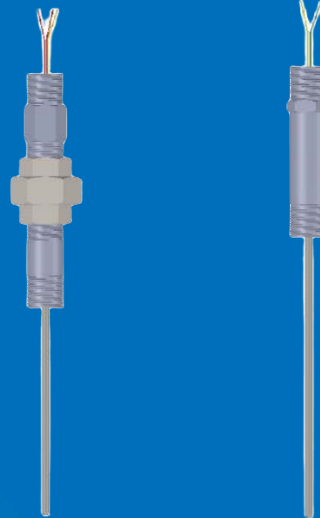


S80 - LCD & S81 - LCD

- Accuracy of S80 - LCD meets IEC 60584 or ANSI MC 96.1
- Accuracy of S81 - 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:	S80 Type J: -40 to +750°C Type E: -200 to +800°C Type K: -200 to +1100°C Type N: -200 to +1100°C S81 Pt 100: -50 to +400°C Pt 100: -200 to +600°C
Wiring configuration:	S80 Single or Dual S81 3-wire, 4-wire
Certification:	IECEX: Ex ia IIC T6 Ga, NEPSI
Accuracy:	S81 (IEC 60751) 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 $+0.0040x t ^{(1)}$

⁽¹⁾Absolute Temperature °C

Data Sheet

S80 - LCD

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

Data Sheet

S81 - LCD

Ordering Code	S81-LCD S 6 A A B A NRC R3 3 0 0 LN T										
Type											
S	Standard	S									
J	Ex ia IIC T6										
Stem Diameter											
6	6mm	6									
8	8mm										
T	1/4"										
Sensor Type											
1	Pt100										
Accuracy											
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										
Temperature Measurer											
A	Film resistor	A									
B	Wire wound resistor										
Wiring Configuration											
B	Single, 3-wire	B									
C	Single, 4-wire										
E	Dual, 3-wire										
F	Dual, 4-wire										
Stem Material											
A	AISI 316L / 1.4404	A									
Extension Type											
Please see extension type table on page 5											NRC
Process Connection											
R3	1/2" NPT-M	R3									
M20	M20x1.5-M										
Extension line											
1	Temperature transmitter with digital display										
3	PTFE 200mm	3									
Certification											
0	NA	0									
X	IECEX										
N	NEPSI										
Calibration Report											
0	Without	0									
3P	Single,3 points										
5P	Single,5 points										
3D	Dual,3 points										
5D	Dual,5 points										
Length Cable											
LN	min.100 ~ max.100000mm	LN									
Options											
T	Label in stainless steel with tag	T									

S81 - LCD

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

