



## Custom Builder

MODEL 1 2 3 4 5 6 7 8 9 10 11 12

RS81 - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]

BOX 1 CODE	Temperature Range
L	Low Temp. -50 to 200°C
M	Med. Temp. -50 to 400°C

BOX 2 CODE	Element Type
P	100Ω @ 0°C, α = 0.00385 DIN EN 60751

Other elements available. Consult factory.

BOX 3 CODE	Element Tolerance
1	±0.12% (±0.3°C) @ 0°C, Class B
2	±0.06% (±0.15°C) @ 0°C, Class A
3	±0.04% (±0.1°C) @ 0°C, Class AA

Other tolerances available. Consult factory.

BOX 4 CODE	Output RTD Circuit Type
S2	Single, 2 wire
S3	Single, 3 wire
S4	Single, 4 wire
D2	Dual, 2 wire
D3	Dual, 3 wire

BOX 4 CODE	Output Transmitter Type (Installed)
TA	Model RT810, 4-20mA
TB	Model RT820, 4-20mA
TX	Other, specify model type

Specify temp. range at the end of part number.  
Ex.: RS81-L-P-2-TA...SF, (0/100°C)  
Model RT810 transmitter, range 0/100°C

BOX 5 CODE	Probe Diameter "D"
D	1/4"
F	3/8"
H	1/2"

CODE	Sheath O.D.	Tip O.D.
DB	1/4"	1/8"
FC	3/8"	3/16"
HC	1/2"	3/16"
HD	1/2"	1/4"
JD	5/8"	1/4"

Other diameters available. Consult factory.

BOX 6 CODE	Probe Material
S	Stainless steel 316/316L

Other materials available. Consult factory.

BOX 7 CODE	Probe Length "L"
---	In 0.1" increments Ex.: 065 = 6.5" long Ex.: 120 = 12" long

BOX 8 CODE	Extension Length "C"
N---	In 0.1" increments (2.5" Std.) Ex.: N25 = 2.5" long

BOX 9 CODE	Instrument Connection
EN	1/2" NPT male
EE*	1/2" NPS male

\*Code EE is standard when ordering with a head.

BOX 10 CODE	Process Fitting Type / Size
A**	Cherry-Burrell (16A1-141), male std.
B**	Cherry-Burrell (16A1-141), female
C**	Bevel Seat (16A) with 13H nut
D**	Bevel Seat (16A) without nut
E**	Bevel Seat (16A) female
F**	John Perry (JP16A) with 13H nut
G**	John Perry (JP16A) without nut

\*\* 10 = 1.0"    20 = 2.0"    30 = 3.0"  
15 = 1.5"    25 = 2.5"    40 = 4.0"  
Codes from A to G are COP (Clean Out of Place)

Other fittings available. Consult factory.

BOX 11 CODE	Head/Termination
0	No head, supplied with 6" single Teflon® leads
PO*	White polypropylene screw cover, meets NEMA 4X/IP65 requirements
BA2	Bakelite screw cover, meets NEMA 4X/IP65 requirements
SS2	Machined & polished stainless steel 316/316L screw cover, meets NEMA 4X/IP66 requirements
CS*	Cast stainless steel 316 screw cover, meets NEMA 4X/IP66 requirements
CX*	Cast stainless steel, explosion proof, CSA, FM Approval Class I, Div. 1, Gps. B, C & D Class II, Div. 1, Gps. E, F & G, NEMA 4X

\*2 = 1/2" NPT Conduit    \*3 = 3/4" NPT Conduit

BOX 12 CODE	Surface Finish
SF	32 μ-in (0.8 μm) Ra max. or better
F1	20 μ-in (0.5 μm) Ra max. w/o EP
F4	15 μ-in (0.4 μm) Ra max. with EP