

# PID CONTROLLERS

## FULL FEATURED

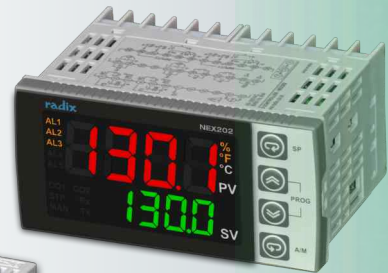
- SINGLE / DUAL PID LOOP
- LARGE DISPLAY
- 2 ANALOG OUTPUTS, 7 RELAYS (MAXIMUM)
- IP66 / NEMA 4X
- LOW DEPTH



**NEX201**  
48x48x85



**NEX203**  
96x48x60



**NEX202**  
48x96x60



**NEX205**  
96x96x60



**NEX207**  
164.3x177.5x125

# PID CONTROLLERS

## FULL FEATURED

### FEATURES

- Versions
  - PID - Single loop (Includes Onoff Controller and Indicator modes)
  - PID - Dual loop
  - Heat+cool
  - PID - Single loop, 16-segment profile
  - VMD
- IP66 (IEC) / NEMA 4X protection
- 1 or 2 universal inputs
- Sampling time 50ms/200ms programmable
- Upto 6 digital inputs
- Upto 7 setpoints (2 control relays, 5 alarm relays)
- Isolated 2 x 0/4~20 mA or 0-10 V DC for control / retransmission output
- Isolated RS485/Modbus RTU
- Autotuning function
- Auto/manual control
- Calibration & configuration through PC utility
- User friendly keyboard interface with password protection
- User key with assignable function
- Other functions
  - Single ramp/soak
  - Soft start
  - Bumpless transfer
  - Anti reset windup
  - Four PID groups selectable
  - Remote setpoint input function
  - Heater break alarm (CT input)
  - Standby function
  - Parameter Mask

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### SPECIFICATIONS

All specifications at ambient of 25 °C unless specified otherwise

<p><b>INPUTS</b></p> <p>No of input Input group 1</p> <p>Thermocouple RTD Voltage Current</p> <p>Input group 2</p> <p>Thermocouple RTD Current</p> <p>Voltage</p> <p>Sampling time Transmitter supply (V<sub>TX</sub>) Range limits Accuracy</p> <p>Warm up time for specified accuracy Cold junction compensation Sensor break protection Digital inputs</p>	<p>2 (Input1, Input2)</p> <p>B, E, J, K, N, R, S, T Pt100 0~50 mV, 0~10 V 4~20 mA</p> <p>B, C, D, E, G, J, K, N, R, S, T, L, U, PLII Pt100, Cu53, JPT100 0~20 mA, 4~20 mA, 4~20 mA with Square root -10~20mV, 0~50 mV, 0~200 mV, 0~2 V, 0~5 V, 0~10V 50 ms / 200 ms programmable 22 V nominal, 30 mA max See Table 1 Thermocouple : ±0.25% of FS ±1°C Pt100 : ±0.05% of FS ±1°C Linear inputs : ±0.25% of FS ±1 digit 20 minutes Automatic/User programmable User programmable Isolated potential free contact closure</p>	<p><b>INDICATION</b></p> <p>See Table 2</p>
<p><b>OUTPUTS</b></p> <p>No. of setpoints</p> <p>No. of relays Relay contact type Relay contact rating</p> <p>SSR drive No. of analog outputs Current output</p> <p>Maximum load for current output Voltage output Load for voltage output</p>	<p>Upto 2 Setpoints for control Upto 3 / 4 / 5 setpoints for alarm See Table 2 NO-C-NC, NO-C 7A/230 VAC 5A/230 VAC 12 V DC drive signal for external SSR 0 / 1 / 2 4~20 mA / 0~20 mA / 20~4 mA / 20~0 mA isolated from input 500 ohms 0-10 V / user specified &gt;10 Kohms</p>	<p><b>COMMUNICATION</b></p> <p>Port Protocol Slave ID</p> <p>RS485 Modbus RTU User programmable (1~247)</p>
		<p><b>POWER SUPPLY</b></p> <p>Supply voltage</p> <p>a. 85~265V AC, 50/60hz b. 20~55V DC</p>
		<p><b>AUTO/MANUAL OPERATION</b></p> <p>Function</p> <p>Auto / Manual transfer</p> <p>Output power is increased/decreased by UP/DOWN keys in manual mode Bumpless</p>
		<p><b>ISOLATION</b></p> <p>Mutual isolation between input, supply, relays, analog output, digital input, RS485</p> <p>1500 VAC RMS, 50hz / 1 minute</p>
		<p><b>ENCLOSURE</b></p> <p>See Table 2</p>
		<p><b>TEMPERATURE, HUMIDITY</b></p> <p>Ambient operating temperature Ambient operating humidity</p> <p>-10 to 50 °C Below 90% RH, non-condensing</p>

### PROGRAMMABLE PARAMETERS\*

<p>Mode</p> <p>User key / Digital input</p> <p>Setpoint lock Power on delay Soft start function Time out for run mode Input type High/Low scales of input Setpoint Resolution</p> <p>Unit Digital filter CJC PID groups Control type Band (P) Integral time (I) Derivative time (D) Cycle time</p>	<p>Indicator/On-off Controller/PID Controller</p> <p>Programmable function such as start, stop, run, hold profile, autotune, etc</p> <p>ON, OFF</p> <p>0~999 seconds</p> <p>Timer / setpoint / % output</p> <p>None / 10 seconds / 1 min / 9 min</p> <p>TC/RTD/Linear input</p> <p>Full range (See Table 1)</p> <p>Full range (See Table 1)</p> <p>User selectable</p> <p>0.001, 0.01, 0.1 or 1 for linear input, 0.1 or 1 for temperature</p> <p>°C, °F, EU</p> <p>None / low / high</p> <p>Auto / off / -10 to 60°C</p> <p>1-4</p> <p>Heat/Cool/Heat+Cool</p> <p>0.1~999.9, 0~100% of span</p> <p>Off, 1~6000 seconds</p> <p>Off, 1~6000 seconds</p> <p>1~1000 second</p>	<p>Manual reset</p> <p>High/low limits of power</p> <p>Dead band for heat+cool</p> <p>Cool coefficient heat+cool</p> <p>Cool Compressor delay</p> <p>Alarm logic</p> <p>Alarm delay</p> <p>Alarm acknowledge</p> <p>Relay action</p> <p>Single ramp/soak</p> <p>16 Segment profile</p>	<p>-99 to 99 °C</p> <p>-3~103%</p> <p>-50~50%</p> <p>0~100%</p> <p>0~999 min</p> <p>a. Fullscale high alarm b. Full scale low alarm c. Deviation high alarm d. Deviation low alarm e. Inband alarm f. Outband alarm g. Heat h. Cool</p> <p>0~999 second/minute</p> <p>Reset alarm through user key / digital input</p> <p>Reverse / direct</p> <p>Ramp: 0~999.9 °C / min or hour</p> <p>Soak time : 0~999 minutes</p> <p>a) Setpoints - Full range (see table 1) b) Ramp/soak rate : 1~999 min/hour c) Other functions : Profile repeat/resume, hold band, etc.</p>
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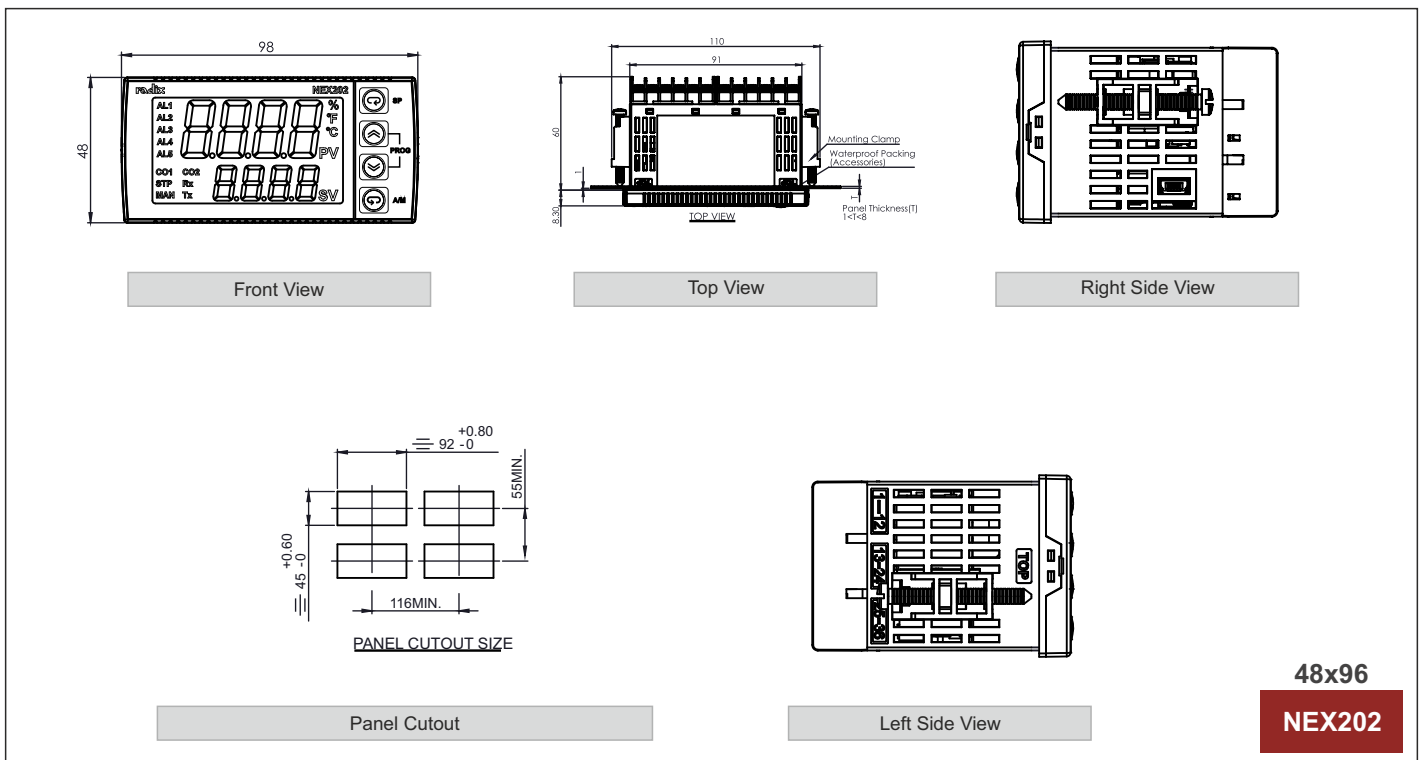
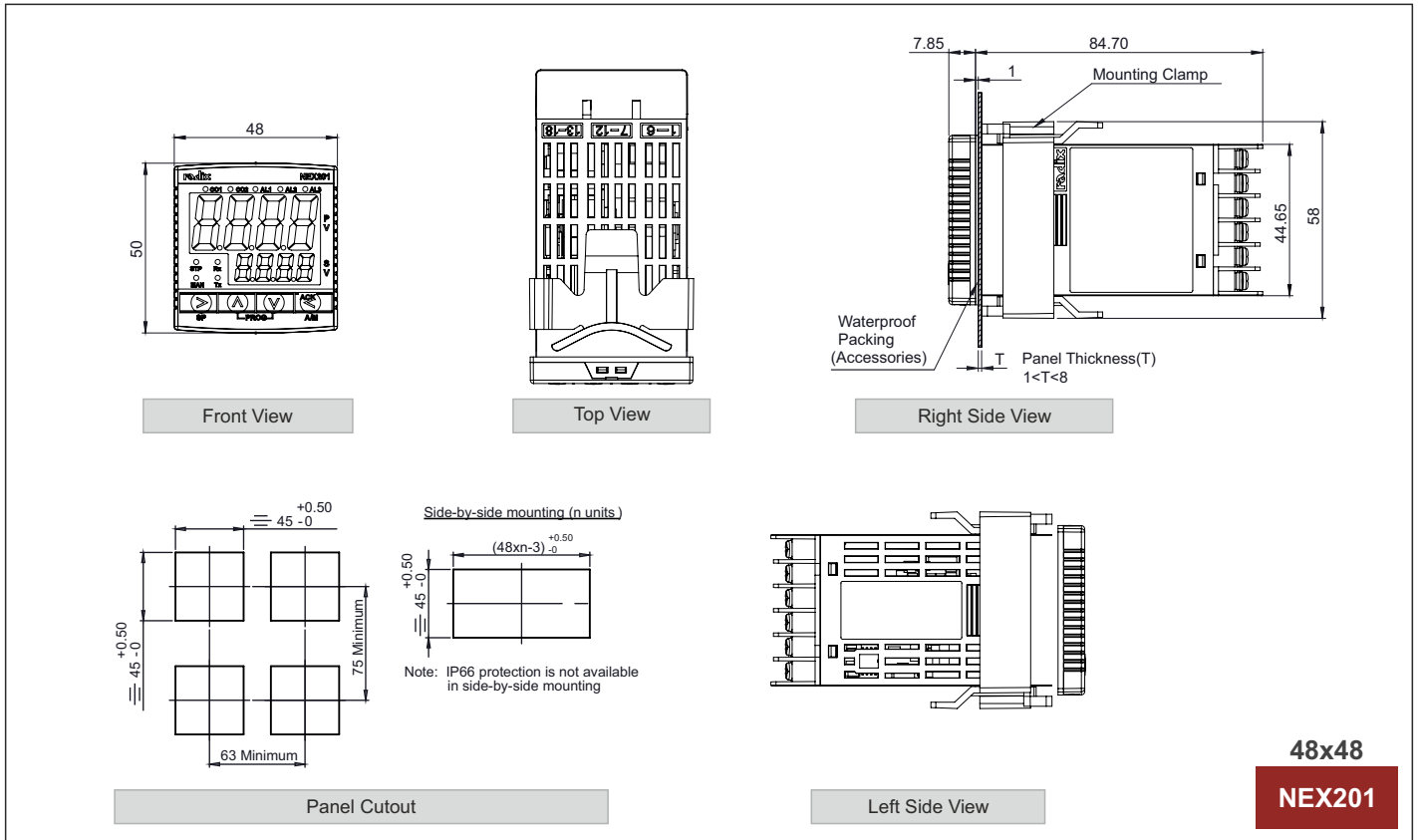
\*Major parameters are listed here.

# PID CONTROLLERS

## FULL FEATURED

### DIMENSIONS mm

Fig.1

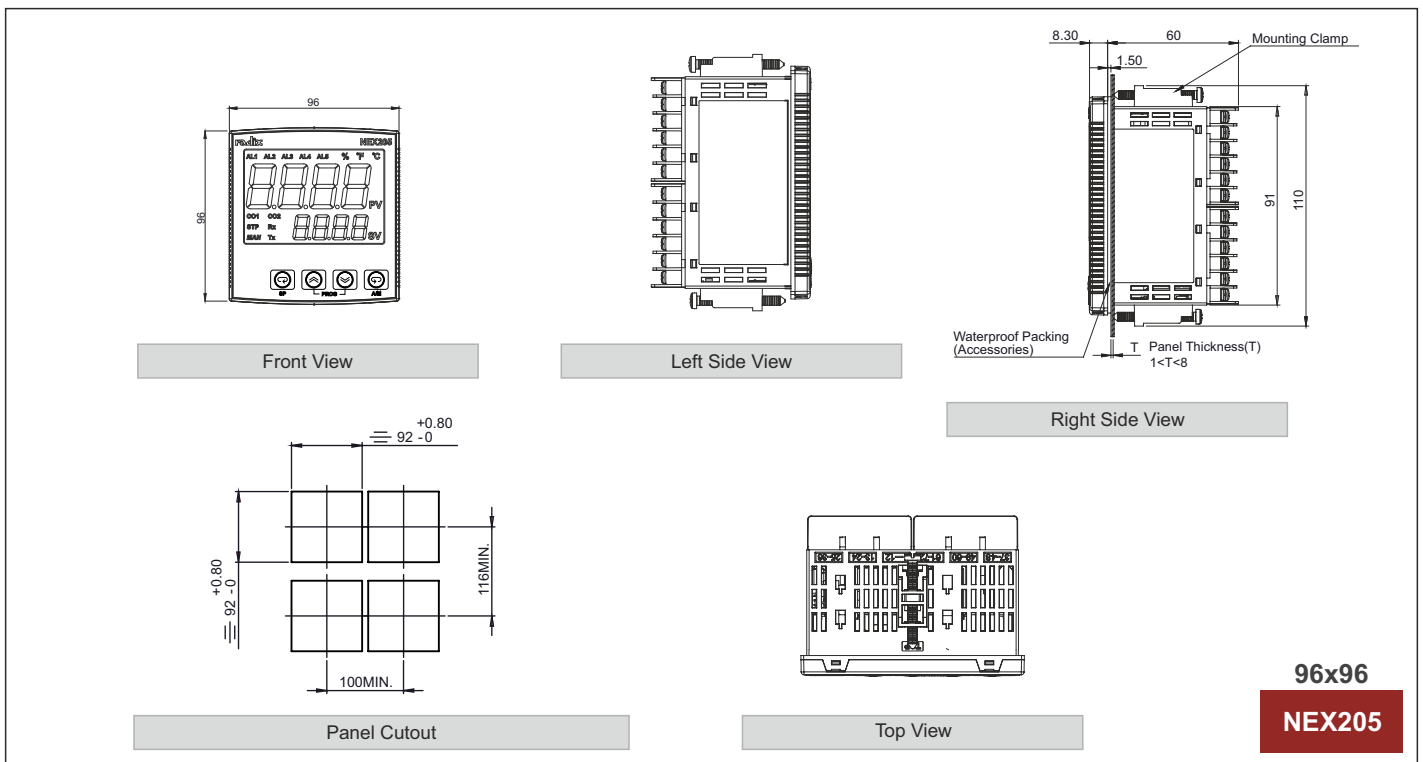
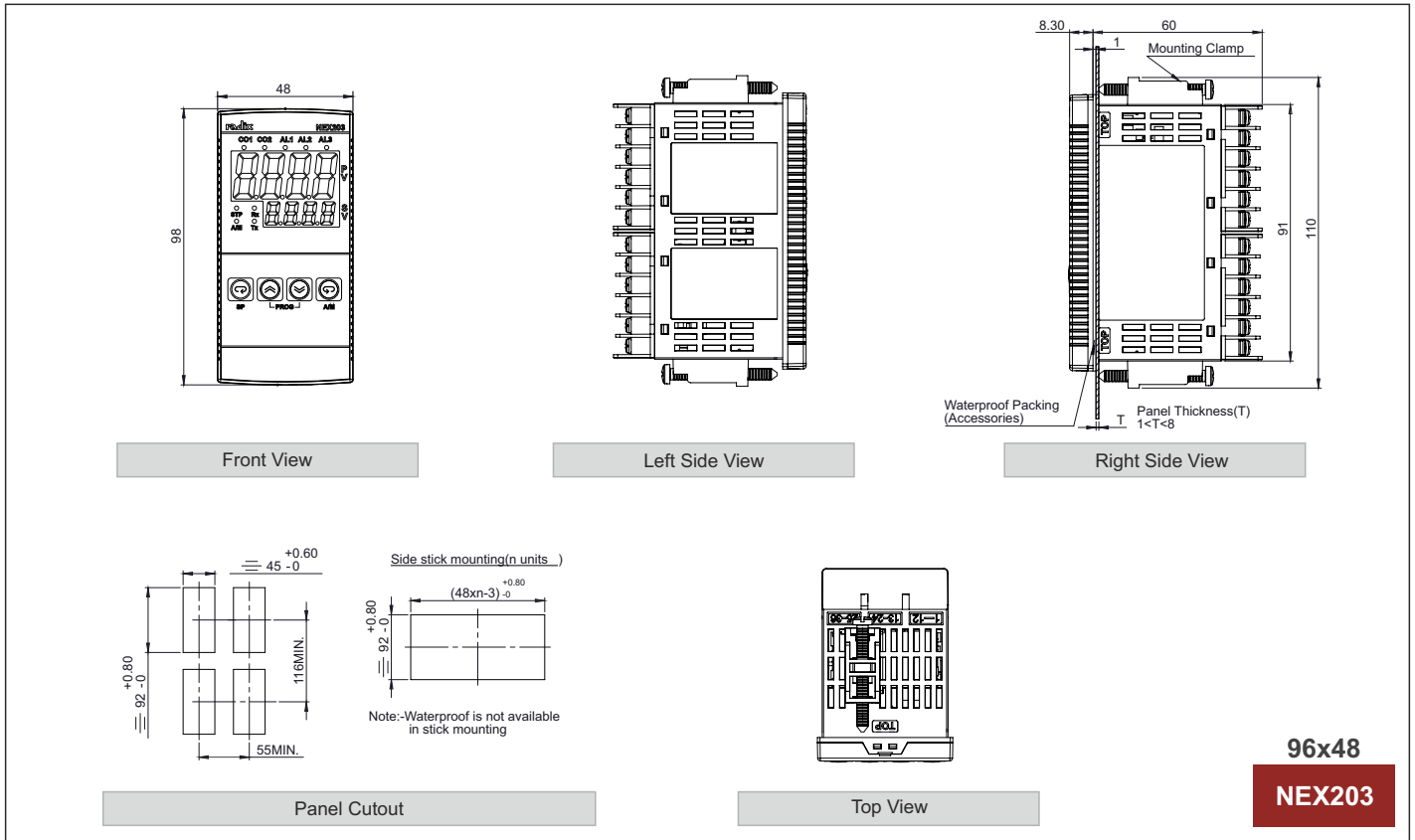


# PID CONTROLLERS

## FULL FEATURED

### DIMENSIONS mm

Fig.1

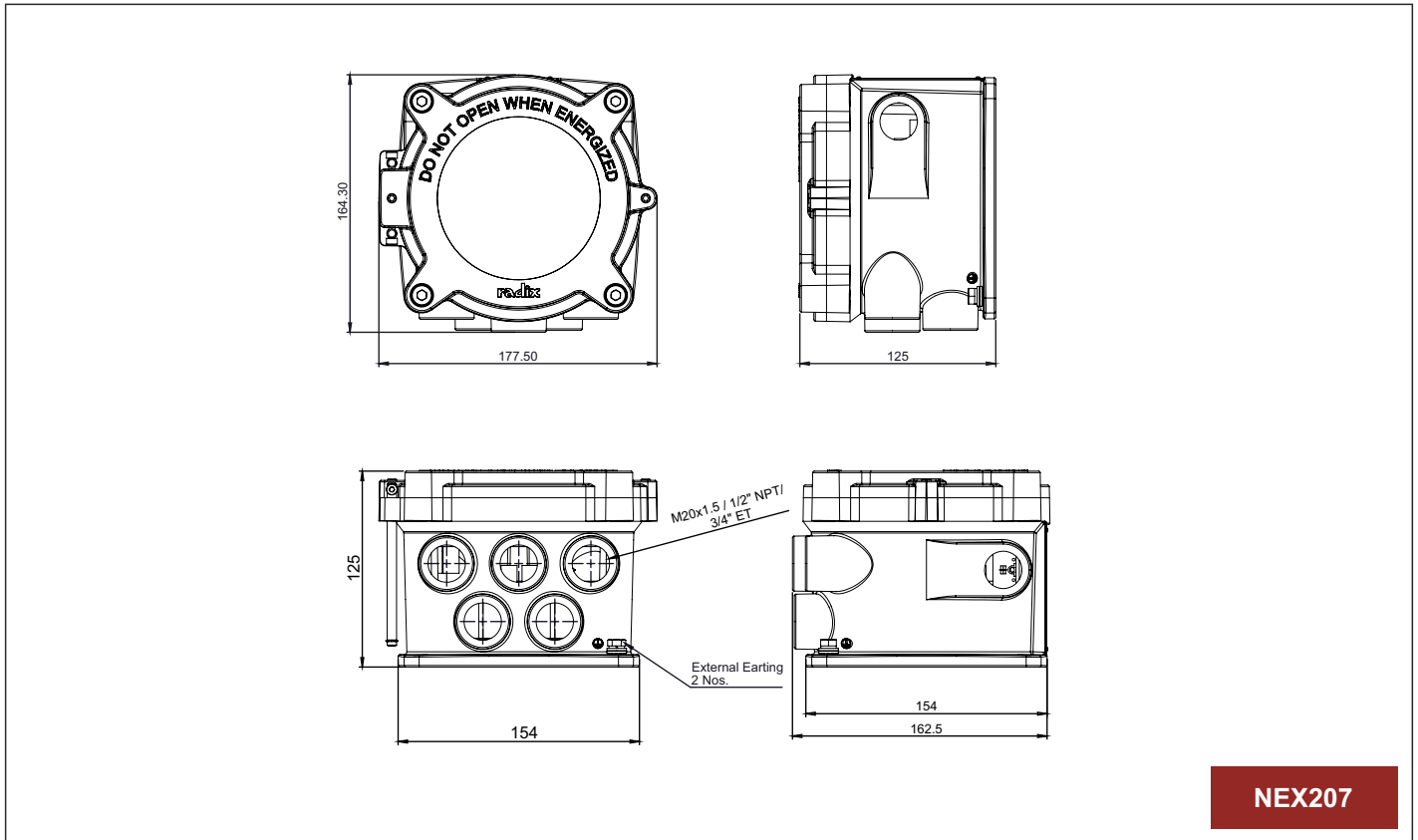


# PID CONTROLLERS

## FULL FEATURED

### DIMENSIONS mm

Fig.1



### TABLE 1

#### Input group 1

SENSOR / INPUT	RANGE LIMITS (°C / EU)	
	LOW SCALE	HIGH SCALE
Pt - 6% Rh / Pt - 30% Rh (B)	400	1800
Chromel / Constantan (E)	-200	850
Iron / Constantan (J)	-200	760
Chromel / Alumel (K)	-200	1370
Nicrosil / Nisil (N)	-200	1300
Pt / Pt - 13% Rh (R)	0	1700
Pt / Pt - 10% Rh (S)	0	1700
Copper / Constantan (T)	-200	400
Pt100, 3-wire	-200	850
Linear (0~50 mV, 4~20 mA, 0~10 V)	-1999	9999

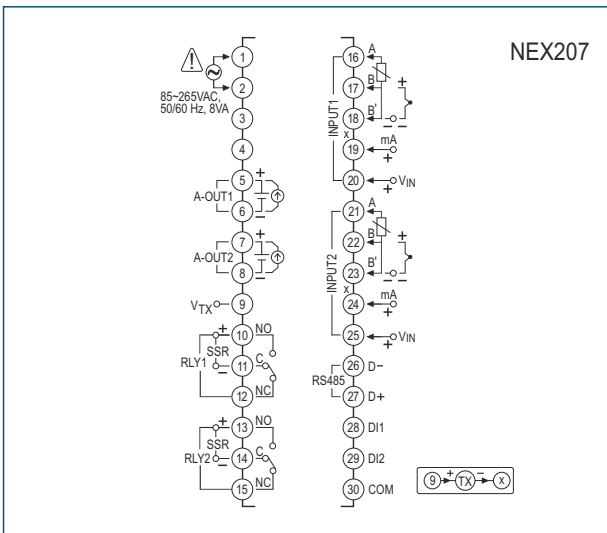
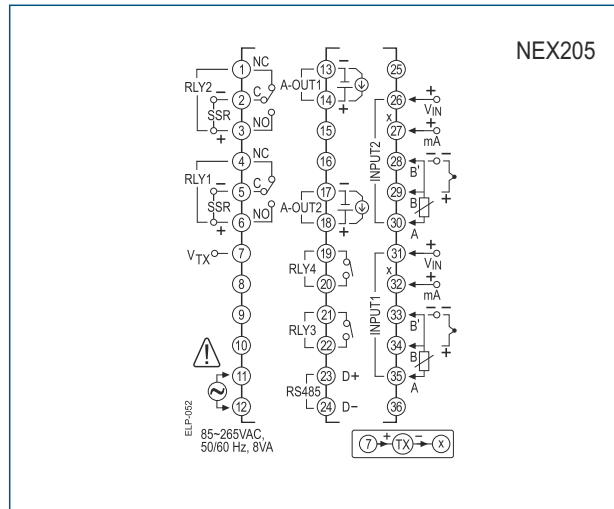
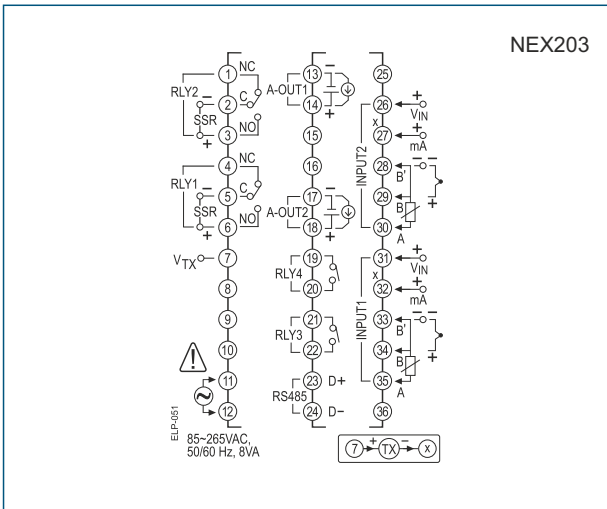
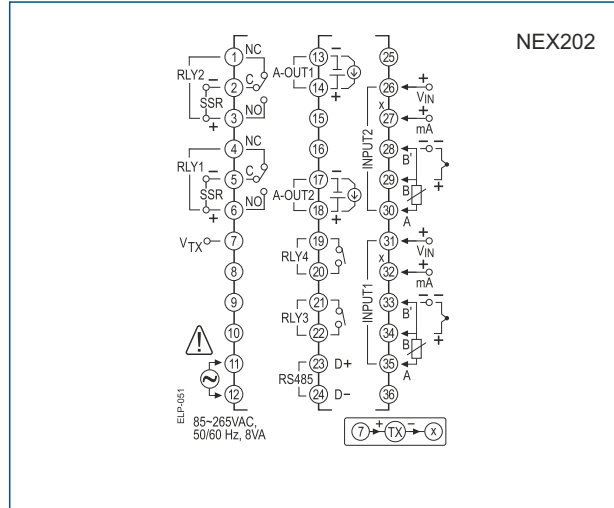
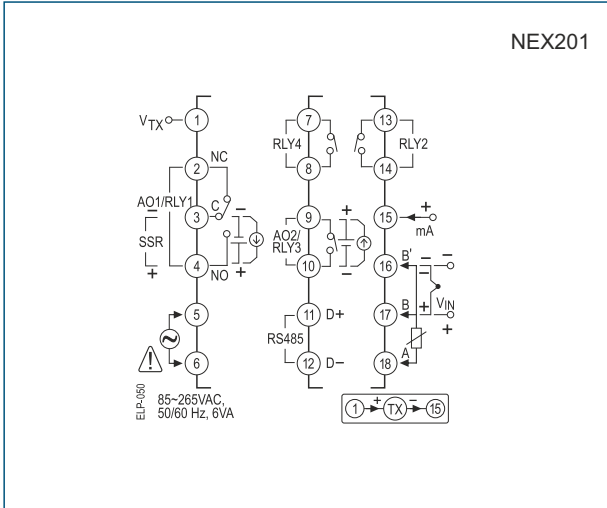
#### Additional Inputs for Input group 2

SENSOR / INPUT	RANGE LIMITS (°C / EU)	
	LOW SCALE	HIGH SCALE
Tungsten - 5% Rh / Tungsten - 26% Rh (C)	0	2300
Tungsten - 3% Rh / Tungsten - 25% Rh (D)	0	2000
Tungsten / Tungsten - 26% Rh (G)	0	2310
Iron / Constantan (L)	-200	900
Copper / Constantan (U)	-200	600
Platinum - 40% Rh / Platinum - 20% Rh (2040)	0	1880
JPT100	-200	600
Cu53	0	150
Linear (-10~20mV, 0~50 mV, 0~200 mV, 0~2 V, 0~5 V, 0~10V)	-1999	9999
Linear (4~20 mA) with square root	0	9999

# PID CONTROLLERS

## FULL FEATURED

### CONNECTION DIAGRAMS \*



\* For other configurations, contact sales

**Examples**






NEX201 : 5xRelays + RS485

NEX205 : Configuration shown above +  
3xRelays (total 7) + 6xDigital inputs

# PID CONTROLLERS

## FULL FEATURED

**TABLE 2 : SELECTION TABLE**

Product Photo					
Model	NEX201	NEX202	NEX203	NEX205	NEX207
Number of inputs/ Input type	2 x Universal input				
Size	48H x 48W x 85D mm	48H x 96W x 60D mm	96H x 48W x 60D mm	96H x 96W x 60D mm	164.3H x 177.5W x 125D
Display	Upper 0.64" / 16.3 mm Lower 0.354" / 9 mm	Upper 0.75" / 19 mm Lower 0.45" / 11.4 mm	Upper 0.64" / 16.3 mm Lower 0.354" / 9 mm	Upper 1" / 25.4 mm Lower 0.56" / 14.2 mm	Upper 1" / 25.4 mm Lower 0.56" / 14.2 mm
Relay output	Maximum - 5 Control - 2 Alarms - 3	Maximum - 6 Control - 2 Alarms - 4	Maximum - 6 Control - 2 Alarms - 4	Maximum - 7 Control - 2 Alarms - 5	Maximum - 4 Control - 2 Alarms - 2
Isolated analog output	Isolated 2 x 0/4~20 mA or 0-10 V DC for control / retransmission output				
Communication	Isolated RS485/Modbus RTU				
Digital inputs	Upto 3	Upto 3	Upto 3	Upto 6	Upto 2
Transmitter excitation supply	Available				
Mounting	Panel				Surface
Terminals	M3 screw, suitable upto 2 mm <sup>2</sup> wire				M2.5 screw, suitable upto 2.5 mm <sup>2</sup> wire
Housing material	ABS plastic, grade: UL94V-0				Cast AL (Powder coated)
Protection	Front IP66 (IEC) / NEMA 4X (When properly installed using IP66 kit) Rear (behind panel) IP20 (IEC)				IP66
Certification	-				Flameproof, Gr IIA, IIB & IIC
Cable gland	-				½" NPT double compression (brass) #
Weight	Approx. 175 gm	Approx. 240 gm	Approx. 240 gm	Approx. 400 gm	Approx. 3 kg
Maximum configuration	A: 1 x Input, 2 x Relays, 2 x Analog outputs, RS485 B: 1 x Input, 5 x Relay, RS485 C: 2 x Input, 2 x Relay, or 2 x Analog outputs, RS485	A: 1 x Input, 2 x Relay, 2 x Analog output, 2 Alarms, RS485 B: 1 x Input, 6 x Relay C: 2 x Input, 2 x Relay, 2 x Analog outputs, 2 Alarms, RS485	A: 1 x Input, 2 x Relay, 2 x Analog output, 2 Alarms, RS485 B: 1 x Input, 6 x Relay C: 2 x Input, 2 x Relay, 2 x Analog outputs, 2 Alarms, RS485	A: 2 x Input, 7 x Relay, 2 x Analog outputs, 6 x Digital Input, RS485	A: 2 x Input, 4 x Relay, 2 x Analog outputs, 2 x Digital Input, RS485

# Cable gland is not part of standard accessories



# PID CONTROLLERS

## FULL FEATURED

### ORDERING INFORMATION

#### MODEL : NEX201 (48x48)

CODE	SPECIFICATION	1	2	3	4	5	6
2587							
1	<b>Version</b>						
	PID - Single loop	A					
	PID - Dual loop - <b>Note 1</b>	B					
	PID - Heat + Cool	C					
	PID - Single loop, 16-segment profile	D					
2	<b>Number of inputs (For Group2 - Contact Factory)</b>						
	1 x Universal input (Group1)		1				
	2 x Universal input (Group1) - <b>Note1, Note2</b>		2				
	1 x Universal input (Group1) + 1 x Current transformer input (with relay) - <b>Note2</b>		3				
	1 x Universal input (Group1) + 3 x Digital input - <b>Note2</b>		4				
3	<b>Relay outputs - Note3</b>						
	None			N			
	2 Relays			2			
	3 Relays			3			
	4 Relays - <b>Note2</b>			4			
	5 Relays - (NO1-C1-NC1, NO2-C2, C-NO3-NO4-NO5)			5			
4	<b>Analog outputs</b>						
	None				N		
	1 x 4~20 mA				A		
	1 x 0~10V				B		
	2 x 4~20 mA - <b>Note2</b>				C		
	2 x 0~10V - <b>Note2</b>				D		
	1 x 4~20 mA + 1 x Analog output 0~10V - <b>Note2</b>				E		
5	<b>RS485 - Note2</b>						
	None					N	
	RS485 / MODBUS RTU					A	
6	<b>Power supply</b>						
	85~265 VAC						1
	20VDC - 55VDC						2

#### FOR NEX201

Note1 : For dual loop PID or remote setpoint input , 2 x Universal input has to be selected

Note2 : Only one of the options a), b) or c) can be selected.

- a) 3, 4 or 5 relays
- b) 2nd input
- c) 2nd analog output

Note3 : Relay outputs : Contact sales for SSR drive outputs.

See Preferred Order Codes list. For order codes outside this list, larger MOQ will apply. Contact sales.

# PID CONTROLLERS

## FULL FEATURED

### ORDERING INFORMATION

**MODEL : NEX202 (48x96)**

CODE	SPECIFICATION	1	2	3	4	5	6
2706							
1	<b>Version</b>						
	PID - Single loop	A					
	PID - Dual loop - <b>Note1</b>	B					
	PID - Heat + Cool	C					
	PID - Single loop, 16-segment profile	D					
2	<b>Number of inputs (For Group2 - Contact Factory)</b>						
	1 x Universal input (Group1)		1				
	2 x Universal input (Group1) - <b>Note1</b>		2				
	1 x Universal input + 1 x Current transformer input (with relay)		3				
	1 x Universal input (Group1) + 3 x Digital input		4				
3	<b>Relay outputs - Note3</b>						
	None			N			
	2 Relays			2			
	3 Relays			3			
	4 Relays			4			
	5 Relays - <b>Note2</b>			5			
	6 Relays - <b>Note2</b>			6			
4	<b>Analog outputs - Note2</b>						
	None				N		
	1 x 4~20 mA				A		
	1 x 0~10V				B		
	2 x 4~20 mA				C		
	2 x 0~10V				D		
	1 x 4~20 mA + 1 x 0~10V				E		
5	<b>RS485</b>						
	None					N	
	RS485 / MODBUS RTU					A	
6	<b>Power supply</b>						
	85~265 VAC						1
	20VDC - 55VDC						2

#### FOR NEX202

Note1 : For dual loop PID or remote setpoint input, 2 x Universal input has to be selected

Note2 : For fifth and sixth relays : Analog outputs are not possible and only one input is possible

Note3 : Relay outputs : Contact sales for SSR drive outputs.

**See Preferred Order Codes list. For order codes outside this list, larger MOQ will apply. Contact sales.**

# PID CONTROLLERS

## FULL FEATURED

### ORDERING INFORMATION

**MODEL : NEX203 (96x48)**

CODE	SPECIFICATION	1	2	3	4	5	6
2752							
1	<b>Version</b>						
	PID - Single loop	A					
	PID - Dual loop - <b>Note1</b>	B					
	PID - Heat + Cool	C					
	PID - Single loop, 16-segment profile	D					
2	<b>Number of inputs (For Group2 - Contact Factory)</b>						
	1 x Universal input (Group1)		1				
	2 x Universal input (Group1) - <b>Note1</b>		2				
	1 x Universal input + 1 x Current transformer input (with relay)		3				
	1 x Universal input (Group1) + 3 x Digital input		4				
3	<b>Relay outputs - Note3</b>						
	None			N			
	2 Relays			2			
	3 Relays			3			
	4 Relays			4			
	5 Relays - <b>Note2</b>			5			
	6 Relays - <b>Note2</b>			6			
4	<b>Analog outputs - Note2</b>						
	None				N		
	1 x 4~20 mA				A		
	1 x 0~10V				B		
	2 x 4~20 mA				C		
	2 x 0~10V				D		
	1 x 4~20 mA + 1 x 0~10V				E		
5	<b>RS485</b>						
	None					N	
	RS485 / MODBUS RTU					A	
6	<b>Power supply</b>						
	85~265 VAC						1
	20VDC - 55VDC						2

#### FOR NEX203

Note1 : For dual loop PID or remote setpoint input, 2 x Universal input has to be selected

Note2 : For fifth and sixth relays : Analog outputs are not possible and only one input is possible

Note3 : Relay outputs : Contact sales for SSR drive outputs.

**See Preferred Order Codes list. For order codes outside this list, larger MOQ will apply. Contact sales.**

# PID CONTROLLERS

## FULL FEATURED

### ORDERING INFORMATION

#### MODEL : NEX205 (96x96)

CODE	SPECIFICATION	1	2	3	4	5	6
2716							
1	<b>Version</b>						
	PID - Single loop	A					
	PID - Dual loop - <b>Note1</b>	B					
	PID - Heat + Cool	C					
	PID - Single loop, 16-segment profile	D					
2	<b>Number of inputs (For Group2 - Contact Factory)</b>						
	1 x Universal input (Group1)		1				
	2 x Universal input (Group1) - <b>Note1</b>		2				
	1 x Universal input (Group1) + 1 x Current transformer input (with relay)		3				
	1 x Universal input (Group1) + 3 x Digital Input		4				
	1 x Universal input (Group1) + 6 x Digital Input		5				
	2 x Universal input (Group1) + 6 x Digital Input		6				
3	<b>Relay outputs - Note2</b>						
	None			N			
	2 Relays			2			
	3 Relays			3			
	4 Relays			4			
	5 Relays			5			
	6 Relays - <b>Note3</b>			6			
	7 Relays			7			
4	<b>Analog outputs</b>						
	None				N		
	1 x 4~20 mA				A		
	1 x 0~10V				B		
	2 x 4~20 mA				C		
	2 x 0~10V				D		
	1 x 4~20 mA + 1 x 0~10V				E		
5	<b>RS485</b>						
	None					N	
	RS485 / MODBUS RTU					A	
6	<b>Power supply</b>						
	85~265 VAC						1
	20VDC - 55VDC						2

#### FOR NEX205

Note1 : For dual loop PID or remote setpoint input , 2 x Universal input has to be selected

Note2 : Relay outputs : Contact sales for SSR drive outputs.

Note3 : Relay 3-6 : Contact sales for NO-C-NC contacts

See Preferred Order Codes list. For order codes outside this list, larger MOQ will apply. Contact sales.

# PID CONTROLLERS

## FULL FEATURED

### ORDERING INFORMATION

#### MODEL : NEX207 (Flameproof)

CODE	SPECIFICATION	1	2	3	4	5	6
2772							
1	<b>Version</b>						
	PID - Single loop	A					
	PID - Dual loop - <b>Note1</b>	B					
	PID - Heat + Cool	C					
	PID - Single loop, 16-segment profile	D					
2	<b>Number of inputs (For Group2 - Contact Factory)</b>						
	1 x Universal input (Group1)		1				
	2 x Universal input (Group1) - <b>Note1</b>		2				
	1 x Universal input (Group1) + 1 x Current transformer input (with relay)		3				
	1 x Universal input (Group1) + 2 x Digital Input		4				
	2 x Universal input (Group1) + 2 x Digital Input		5				
3	<b>Relay outputs - Note2</b>						
	None			N			
	2 Relays			2			
	3 Relays			3			
	4 Relays			4			
4	<b>Analog outputs</b>						
	None				N		
	1 x 4~20 mA				A		
	1 x 0~10V				B		
	2 x 4~20 mA				C		
	2 x 0~10V				D		
	1 x 4~20 mA + 1 x 0~10V				E		
5	<b>RS485</b>						
	None					N	
	RS485 / MODBUS RTU					A	
6	<b>Power supply</b>						
	85~265 VAC						1
	20VDC - 55VDC						2

#### FOR NEX207

Note1 : For dual loop PID or remote setpoint input, 2 x Universal input has to be selected

Note2 : Relay outputs : Contact sales for SSR drive outputs.

See Preferred Order Codes list. For order codes outside this list, larger MOQ will apply. Contact sales.

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### PREFERRED ORDER CODE

Sr. No.	Product	Order code	Version	Brief Specification	Power Supply
1	NEX201	2587 A12NN1	PID - Single loop	2 Relays	SMPS
2	NEX201	2587 A12NN1 (1st SSR, 2nd Relay)	PID - Single loop	1xSSR+1xRelay	SMPS
3	NEX201	2587 A13NN1	PID - Single loop	3 Relays	SMPS
4	NEX201	2587 A13NA1	PID - Single loop	3 Relays+Modbus	SMPS
5	NEX201	2587 A12AN1	PID - Single loop	2 Relays+lout	SMPS
6	NEX201	2587D12AA1	Profile Controller	2 Relays+lout+Modbus	SMPS
7	NEX202	2706 A12NN1	PID - Single loop	2 Relays	SMPS
8	NEX202	2706 A12AN1	PID - Single loop	2 Relays+lout	SMPS
9	NEX203	2752 A13NN1	PID - Single loop	3 Relays	SMPS
10	NEX203	2752 A12AN1	PID - Single loop	2 Relays+lout	SMPS
11	NEX205	2716 A12NN1	PID - Single loop	2 Relays	SMPS
12	NEX205	2716 A12AN1	PID - Single loop	2 Relays+lout	SMPS
13	NEX205	2716 A12NA1	PID - Single loop	2 Relays+Modbus	SMPS
14	NEX205	2716 A14NN1	PID - Single loop	4 Relays	SMPS
15	NEX205	2716 A12BN1	PID - Single loop	2 Relays+Vout	SMPS
16	NEX205	2716 A22NN1	PID - Single loop	2 Inputs+2 Relays	SMPS
17	NEX205	2716 A24CN1	PID - Single loop	2 Inputs+4 Relays+2xlout	SMPS
18	NEX205	2716 A22CN1	Dual loop PID	2 Inputs+2 Relay+2xlout	SMPS
19	NEX205	2716 A24CN1	Dual loop PID	2 Inputs+4 Relays+2xlout	SMPS
20	NEX205	2716 D14CA1	Profile Controller	4 Relays+2xlout+Modbus	SMPS
21	NEX205	2716 D14AA1	Profile Controller	4 Relays+1xlout+Modbus	SMPS
22	NEX205	2716 C12CN1	Heat + Cool PID	2 Relays+2xlout	SMPS
23	NEX207	2772 A12AN1	PID - Single loop	2 Relays+lout	SMPS
24	NEX207	2772 A14AN1	PID - Single loop	4 Relays+lout	SMPS
25	NEX207	2772 A12NA1	PID - Single loop	2 Relays+Modbus	SMPS

CAT#642R2/T

#### ENQUIRIES

**Instruments:** sales@radix.co.in  
**Sensors:** sensors@radix.co.in  
**Gauges:** gauges@radix.co.in  
**Automation:** automation@radix.co.in  
**Level:** level@radix.co.in

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# PID CONTROLLERS

## VALUE RANGE

- COMPACT DESIGN WITH VERY LOW DEPTH
- LARGE DISPLAY
- 2 RELAYS
- IP66 / NEMA 4X (OPTIONAL)
- RELAY / SSR FOR CONTROL - FIELD SELECTABLE



# PID CONTROLLERS

## VALUE RANGE

### FEATURES

- Compact : 48x48x61 mm  
96x96x35 mm
- Large display : 16.3 mm (48x48)  
25.4 mm (96x96)
- TC, RTD input
- Input sampling cycle 200ms
- 1, 2 setpoints (1 control relay, 1 SSR, 1 Alarm)
- Autotuning : From cold start, At setpoint
- Optional IP66 front
- PID, ON/OFF control
- 85~265 V AC SMPS
- User friendly operation

### SPECIFICATIONS

All specifications at ambient of 25 °C unless specified otherwise

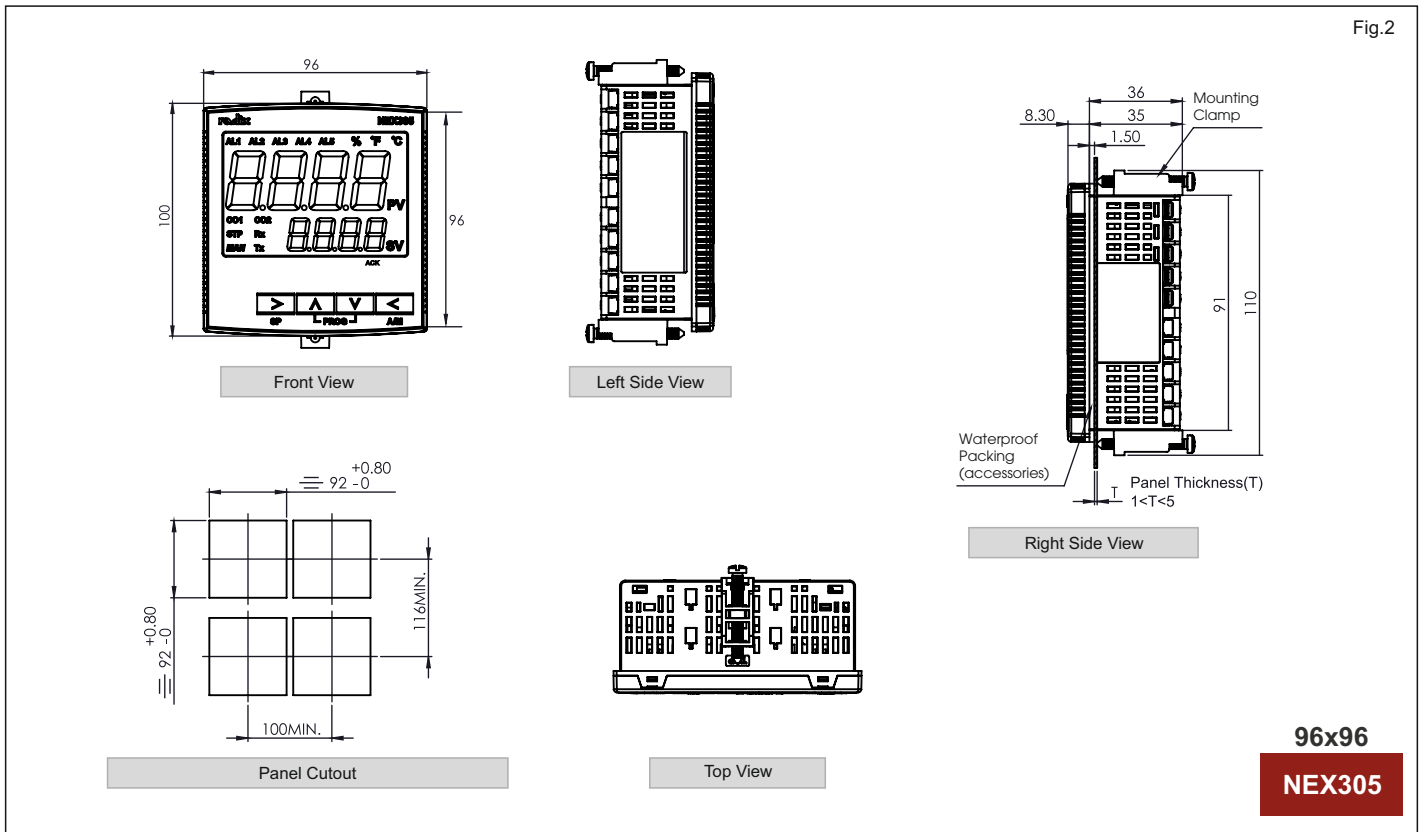
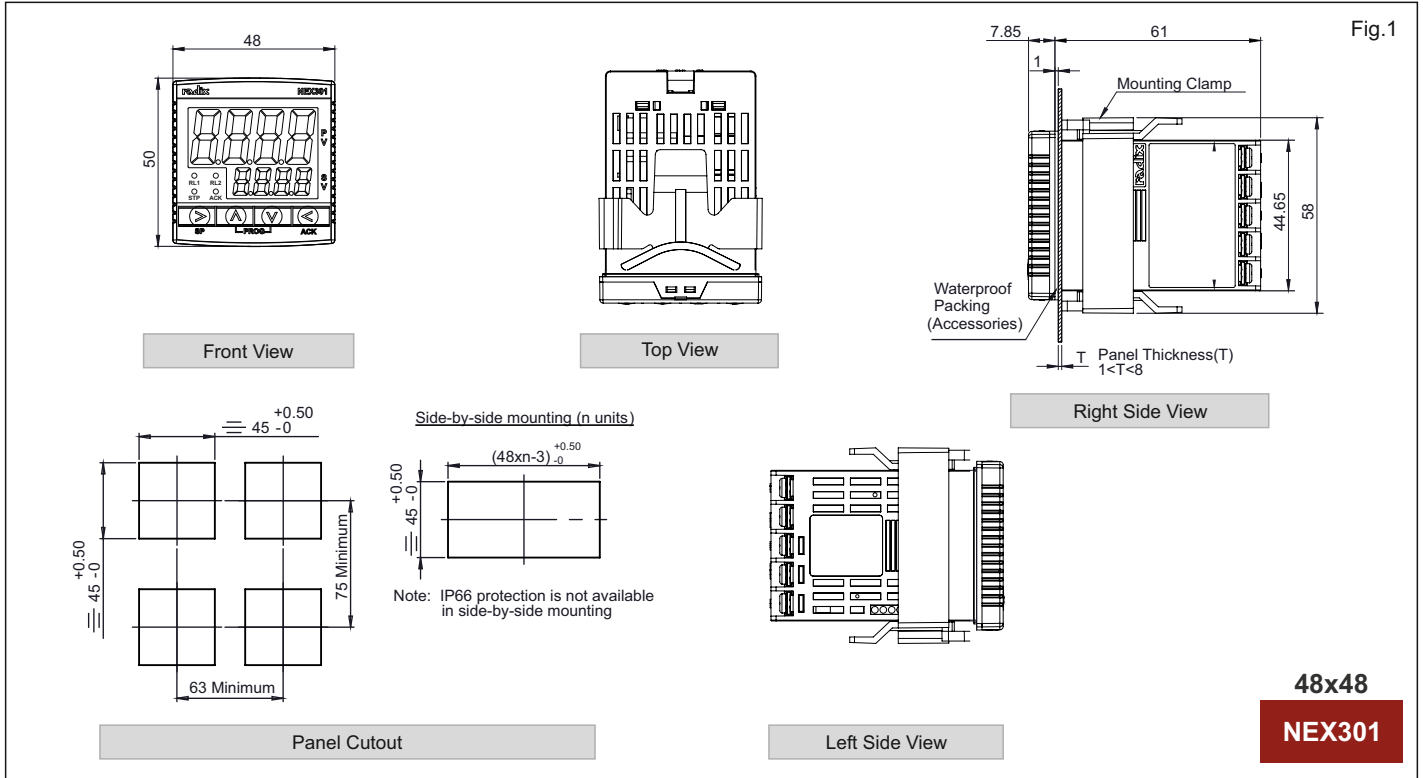
<p><b>INPUTS</b></p> <p>Input</p> <p>Thermocouple RTD</p> <p>Sampling time</p> <p>Range limits</p> <p>Accuracy</p> <p>Warm up time for specified accuracy</p> <p>Cold junction compensation</p>	<p>J, K, R, S, T Pt100, 3-wire</p> <p>200 ms</p> <p>See Table 1</p> <p>Thermocouple : <math>\pm 0.25\%</math> of FS <math>\pm 1</math> °C Pt100 : <math>\pm 0.05\%</math> of FS <math>\pm 1</math> °C</p> <p>30 minutes</p> <p>Automatic</p>	<p><b>TEMPERATURE, HUMIDITY</b></p> <p>Ambient operating temperature</p> <p>Relative operating humidity</p>	<p>-10 to 50 °C</p> <p>Below 90% RH, non-condensing</p>
<p><b>OUTPUTS</b></p> <p>No. of setpoints</p> <p>No. of relays</p> <p>Relay contact type</p> <p>Relay contact rating</p> <p>SSR drive</p>	<p>1 setpoint for control 1 setpoint for alarm</p> <p>2</p> <p>NO-C-NC (Relay1), NO-C (Relay2)</p> <p>7A/250 V AC (Relay1) 5A/250 V AC (Relay2)</p> <p>12 V DC drive signal for external SSR</p>	<p><b>PROGRAMMABLE PARAMETERS</b></p> <p>Setpoint</p> <p>Unit</p> <p>Resolution</p> <p>High scale</p> <p>Low scale</p> <p>Digital filter</p> <p>Bias</p> <p>Setpoint offset</p> <p>Proportional Band (P)</p> <p>Integral time (I)</p> <p>Derivative time (D)</p> <p>Cycle time</p> <p>Hysteresis (ON/OFF control)</p> <p>Relay logic</p>	<p>Full range (See Table 1) °C, °F</p> <p>User selectable 0.1 or 1</p> <p>Full range (See Table 1)</p> <p>Full range (See Table 1)</p> <p>Low, High, None</p> <p>-99.9 ~ 99.9</p> <p>0.1~999.9</p> <p>0.1~999.9, 0~100% of span</p> <p>Off, 1~6000 seconds</p> <p>Off, 1~6000 seconds</p> <p>1~1000 seconds</p> <p>0.1-999.9</p> <p>a. Heat b. Cool c. Full scale high alarm d. Full scale low alarm e. Deviation high alarm f. Deviation low alarm g. Inband alarm h. Outband alarm</p> <p>Auto/Latch/Latch-hold (at power on)</p> <p>Through key ON, OFF</p>
<p><b>INDICATION</b></p>	<p>See Table 2</p>	<p>Alarm types</p> <p>Alarm acknowledge</p> <p>Setpoint lock</p>	
<p><b>POWER SUPPLY</b></p> <p>Supply voltage</p>	<p>a) 85~265 V AC, 50/60 Hz b) 20~30 V DC</p>		
<p><b>ISOLATION</b></p> <p>Mutual isolation between input, supply, relays</p>	<p>1500 VAC rms, 50Hz / 1 minute</p>		
<p><b>ENCLOSURE</b></p> <p>Mounting</p> <p>Terminals</p> <p>Housing material</p> <p>Dimensions (in mm)</p> <p>Weight</p> <p>Protection</p> <p>Front</p> <p>Rear (behind panel)</p>	<p>Panel flush mounting</p> <p>M3 screw, suitable for 2.5 mm<sup>2</sup> wire</p> <p>ABS plastic, grade: UL94V-0</p> <p>See Table 2 or Fig.1</p> <p>See Table 2</p> <p>IP66(IEC) / NEMA 4X (optional) (when properly installed using IP66 kit)</p> <p>IP20 (IEC 6052)</p>		



# PID CONTROLLERS

## VALUE RANGE

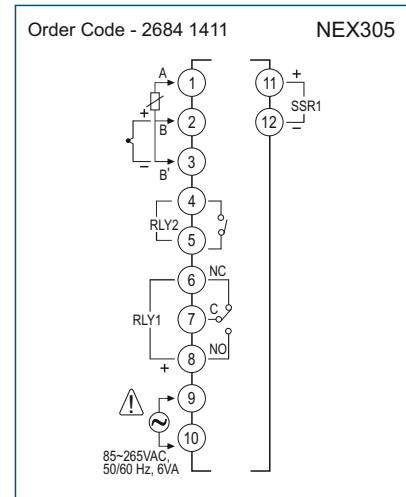
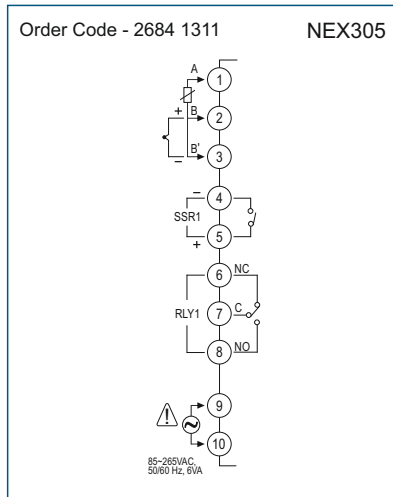
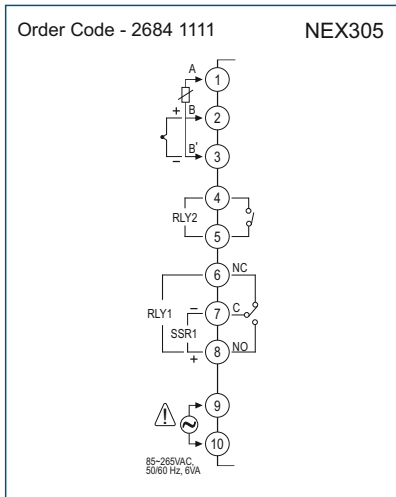
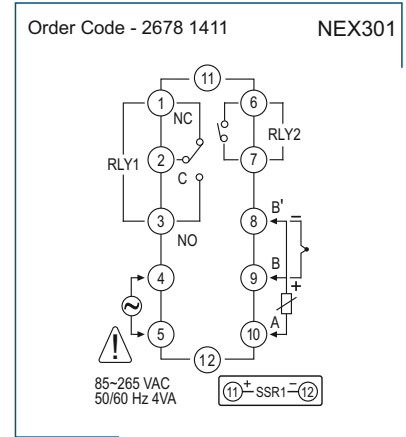
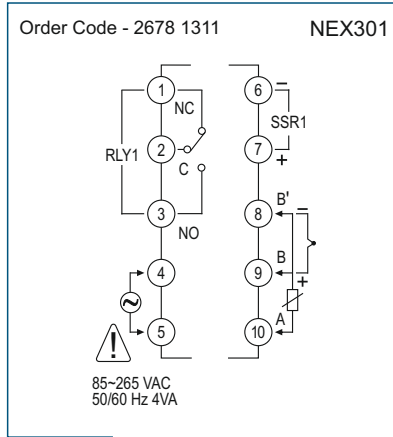
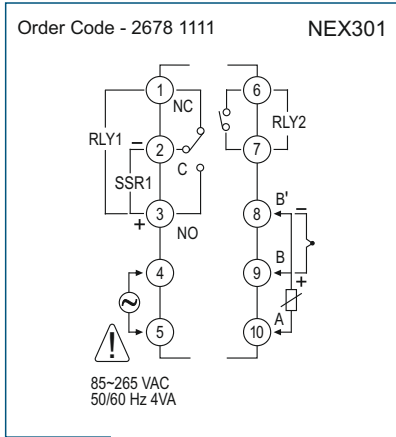
### DIMENSIONS mm



# PID CONTROLLERS

## VALUE RANGE

### CONNECTION DIAGRAM





### TABLE 1

SENSOR / INPUT	RANGE LIMITS (°C / EU)	
	LOW SCALE	HIGH SCALE
Iron / Constantan (J)	-100	850
Chromel / Alumel (K)	-200	1370
Pt / Pt - 13% Rh (R)	0	1700
Pt / Pt - 10% Rh (S)	0	1700
Copper / Constantan (T)	-200	400
Pt100, 3-wire	-200	850

# PID CONTROLLERS

## VALUE RANGE

**TABLE 2**

Product Photo		
Model	NEX301	NEX305
Inputs type	TC, RTD	
Size	48H x 48W x 61D mm	96H x 96W x 35D mm
Display	Upper 0.64" / 16.3 mm Lower 0.354" / 9 mm	Upper 1" / 25.4 mm Lower 0.56" / 14.2 mm
Relay output	Relay1 - Control Relay2 - Control or Alarm SSR1 - Control	
Analog output	Not available	
Communication	Not available	
Transmitter excitation supply	Not available	

### ORDERING INFORMATION

■ **Preferred order codes**

- In regular production
- Short delivery period
- Smaller minimum order quantity & value

■ **Standard order codes**

- All options available are found here
- Minimum order quantity & value will apply

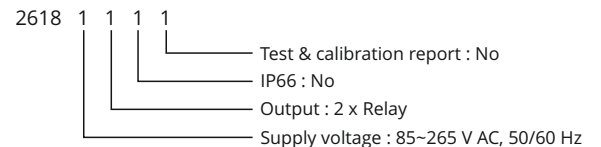
- For Products not covered in preferred order codes & standard order codes, contact sales

**MODEL : NEX301**

STANDARD ORDER CODES \*

Product code	2618				
Supply voltage	1				85~265 V AC, 50/60 Hz
	2				20~30 V DC
Output		1			2 x Relay
		2			1xSSR,1xRelay (2SP-SSR1,Relay2)
		3			1xRelay+1xSSR (1SP-SSR1,Relay1)
		4			2xRelay+1xSSR (2SP-Relay1,SSR1,Relay2)
IP66			1		No
			2		Yes
Test & calibration report				1	No#
				2	Yes**

**EXAMPLE**



\* Minimum order quantity & value will apply.

\* For products not covered by standard order code, contact sales. Minimum order quantity & value will apply.

# Certificate Of Conformance is included

\*\* Chargeable

# PID CONTROLLERS

## VALUE RANGE

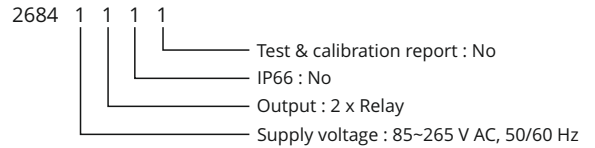
### ORDERING INFORMATION

MODEL : NEX305

STANDARD ORDER CODES \*

Product code	2684				
Supply voltage	1				85~265 V AC, 50/60 Hz
	2				20~30 V DC
Output		1			2 x Relay
		2			1xSSR,1xRelay (2SP-SSR1,Relay2)
		3			1xRelay+1xSSR (1SP-SSR1,Relay1)
		4			2xRelay+1xSSR (2SP-Relay1,SSR1,Relay2)
IP66			1		No
			2		Yes
Test & calibration report				1	No#
				2	Yes**

#### EXAMPLE



- \* Minimum order quantity & value will apply.
- \* For products not covered by standard order code, contact sales. Minimum order quantity & value will apply.
- # Certificate Of Conformance is included
- \*\* Chargeable

### PREFERRED ORDER CODES

Product	Order Code	Brief Specs	Power Supply
NEX301	2618 1111	2xRelay, SMPS	SMPS
NEX301	2618 1311	1xRelay+1xSSR (1SP-SSR1,Relay1)	SMPS
NEX301	2618 1411	2xRelay+1xSSR (2SP-Relay1,SSR1,Relay2)	SMPS
NEX305	2684 1111	2xRelay, SMPS	SMPS
NEX305	2684 1311	1xRelay+1xSSR (1SP-SSR1,Relay1)	SMPS
NEX305	2684 1411	2xRelay+1xSSR (2SP-Relay1,SSR1,Relay2)	SMPS

#### ENQUIRIES

- Instruments: sales@radix.co.in
- Sensors: sensors@radix.co.in
- Gauges: gauges@radix.co.in
- Automation: automation@radix.co.in
- Level: level@radix.co.in

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# PID CONTROLLERS

## MID RANGE

- VERSIONS
  - INDICATOR
  - ONOFF CONTROLLER
  - PID CONTROLLER
- COMPACT DESIGN WITH LOW DEPTH
- LARGE DISPLAY
- 1 ANALOG OUTPUT, 2 RELAYS
- IP66 / NEMA 4X (OPTIONAL)



**NEX601**  
48x48x85



**NEX602**  
48x96x35



**NEX605**  
96x96x35

# PID CONTROLLERS

## MID RANGE

### SPECIFICATIONS

All specifications at ambient of 25 °C unless specified otherwise

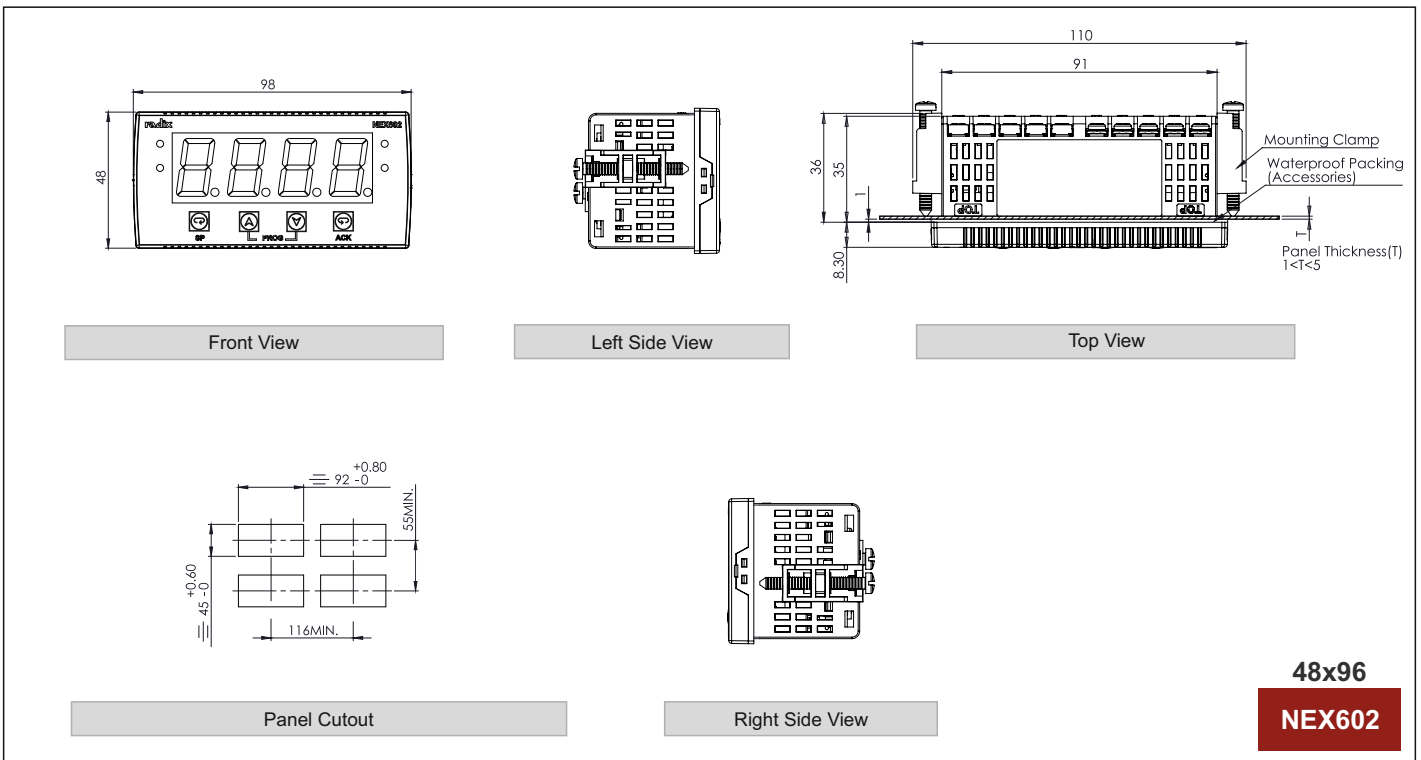
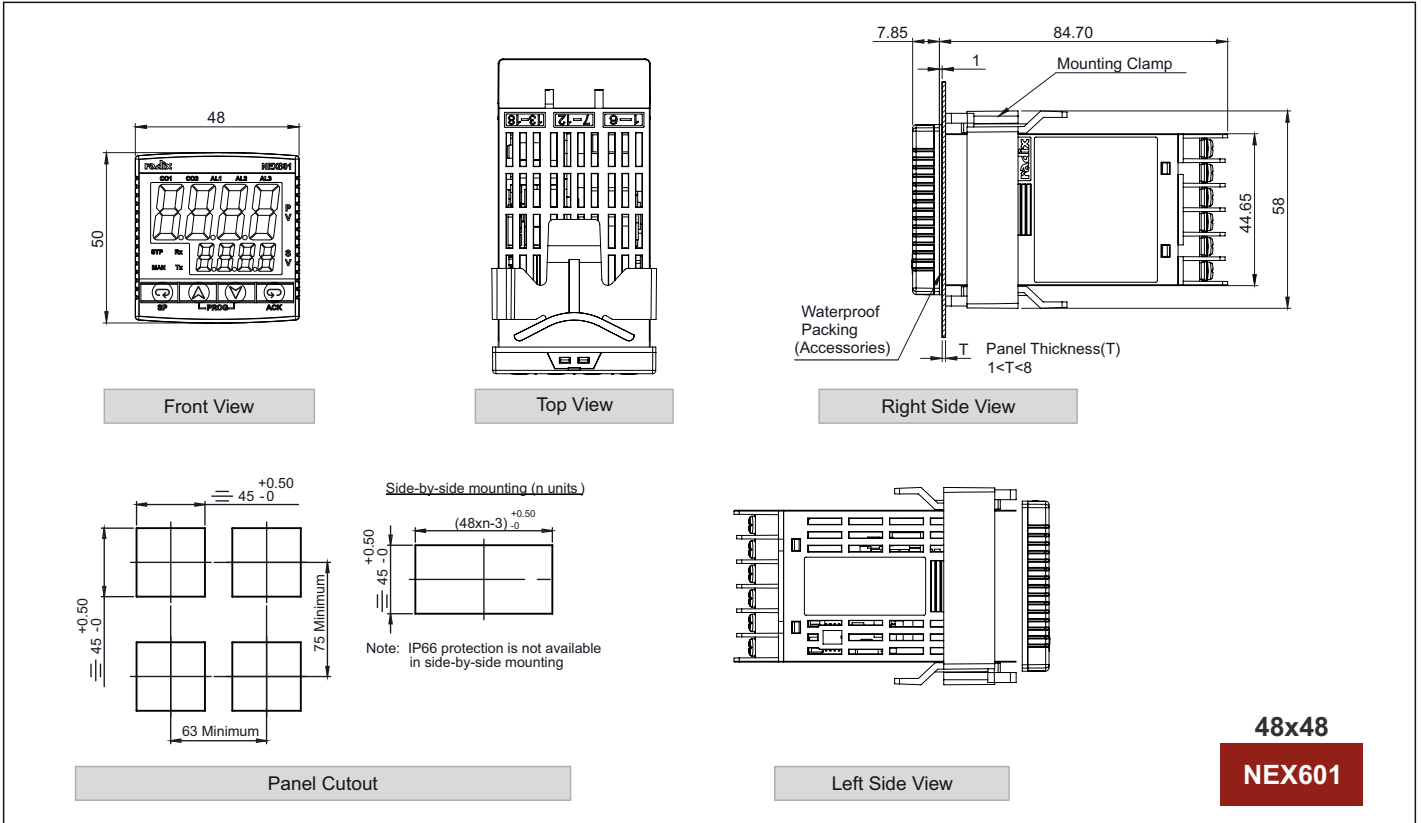
<p><b>INPUTS</b></p> <p>Input</p> <p>Thermocouple RTD Voltage Current</p> <p>Sampling time Range limits Accuracy</p> <p>Warm up time for specified accuracy Cold junction compensation</p>	<p>B, E, J, K, N, R, S, T Pt100, 3-wire 0~10 V 0~20mA, 4~20mA 200 ms See Table 1 Thermocouple : <math>\pm 0.25\%</math> of FS <math>\pm 1</math> °C Pt100 : <math>\pm 0.05\%</math> of FS <math>\pm 1</math> °C Linear inputs : <math>\pm 0.25\%</math> of FS <math>\pm 1</math> digit 30 minutes</p> <p>Automatic</p>	<p><b>TEMPERATURE, HUMIDITY</b></p> <p>Ambient operating temperature Relative operating humidity</p> <p>-10 to 50 °C Below 90% RH, non-condensing</p>	<p><b>PROGRAMMABLE PARAMETERS</b></p> <p>Mode Setpoint Unit Resolution For RTD &amp; TC For Linear Input High scale (Input/Output) Low scale (Input/Output) High Range for Voltage Input Low Range for Voltage Input Digital filter Bias Setpoint offset Band (P) Integral time (I) Derivative time (D) Cycle time Hysteresis (ON/OFF control) Relay logic</p> <p>Indicator/On-off Controller/PID Controller Full range (See Table 1) °C, °F, EU 0.1 or 1 0.001, 0.01, 0.1 or 1 Full range (See Table 1) 0~10 V 0~10 V Low, High, None -99.9 ~ 99.9 0.1~999.9 0.1~100% of span Off, 1~6000 seconds Off, 1~6000 seconds 1~1000 seconds 0.1-999.9 a. Heat b. Cool c. Full scale high alarm d. Full scale low alarm e. Deviation high alarm f. Deviation low alarm g. Inband alarm h. Outband alarm Auto/Latch/Latch-hold (at power on) Through key ON, OFF</p>
<p><b>OUTPUTS</b></p> <p>No. of setpoints No. of relays Relay contact type Relay contact rating</p> <p>SSR drive No. of analog outputs Current output</p> <p>Maximum load for current output Voltage output Load for voltage output</p>	<p>2SP (Relay in control) 3SP (Analog output in control) 2 NO-C-NC (Relay1), NO-C (Relay2) 7A/250 V AC (Relay1) 5A/250 V AC (Relay2) 12 V DC drive signal for external SSR 0 / 1 4~20 mA / 0~20 mA / 20~4 mA / 20~0 mA isolated from input 500 ohms 0-10 V / user specified &gt;10 Kohms</p>		
<p><b>INDICATION</b></p>	<p>See Table 2</p>		
<p><b>POWER SUPPLY</b></p> <p>Supply voltage</p>	<p>a) 85~265 V AC, 50/60 Hz b) 20~30 V DC</p>		
<p><b>ISOLATION</b></p> <p>Mutual isolation between input, output, supply, relays</p>	<p>1500 VAC rms, 50Hz / 1 minute</p>		
<p><b>ENCLOSURE</b></p> <p>Mounting Terminals Housing material Dimensions (in mm) Weight Protection</p> <p>Front</p> <p>Rear (behind panel)</p>	<p>Panel flush mounting M3 screw, suitable for 2.5 mm<sup>2</sup> wire ABS plastic, grade: UL94V-0 See Table 2 and Fig.1 See Table 2</p> <p>IP66(IEC) / NEMA 4X (optional) (when properly installed using IP66 kit) IP20 (IEC 6052)</p>		
		<p>Alarm types Alarm acknowledge Setpoint lock</p>	

# PID CONTROLLERS

## MID RANGE

### DIMENSIONS mm

Fig.1

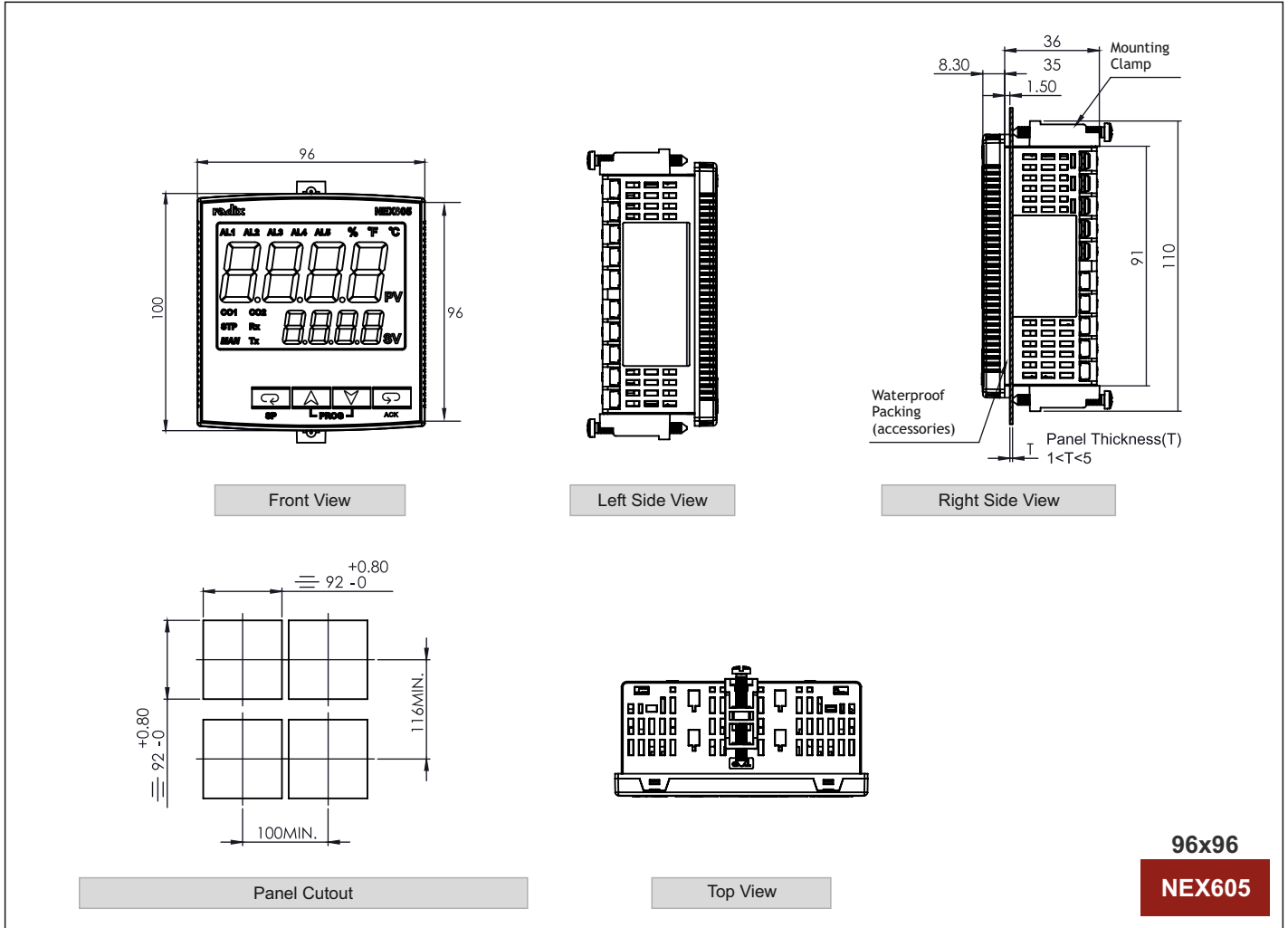


# PID CONTROLLERS

## MID RANGE

### DIMENSIONS mm

Fig.1



### TABLE 1

SENSOR / INPUT	RANGE LIMITS (°C / EU)	
	LOW SCALE	HIGH SCALE
Iron / Constantan (J)	-100	850
Chromel / Alumel (K)	-200	1370
Pt / Pt - 13% Rh (R)	0	1700
Pt / Pt - 10% Rh (S)	0	1700
Copper / Constantan (T)	-200	400

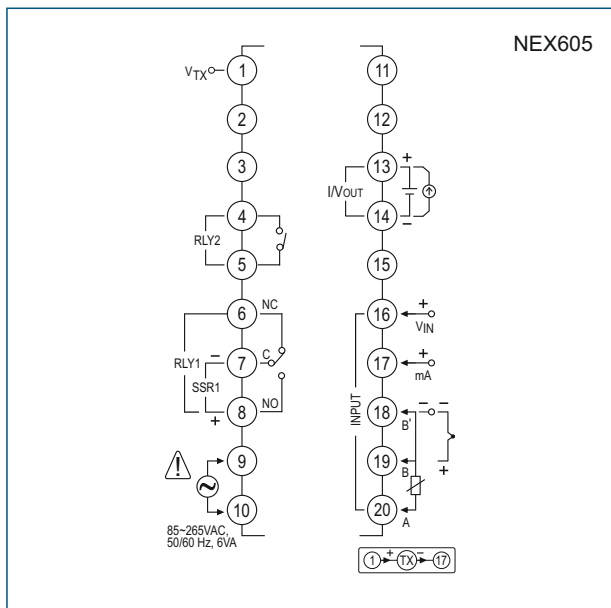
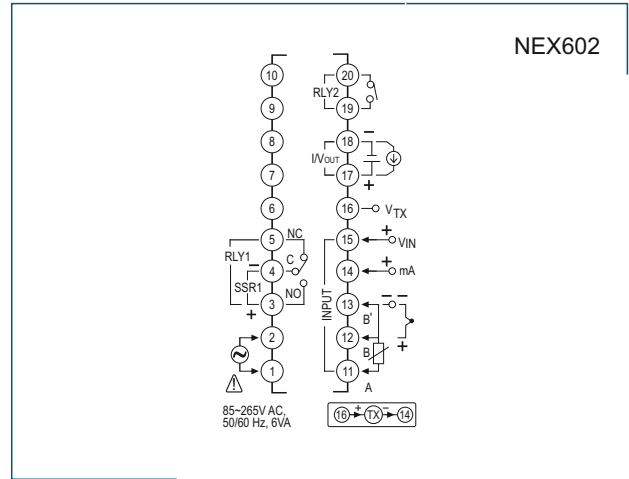
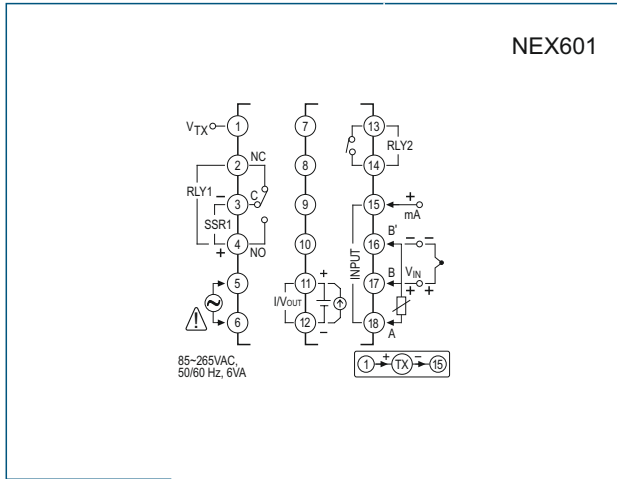
SENSOR / INPUT	RANGE LIMITS (°C / EU)	
	LOW SCALE	HIGH SCALE
Pt - 6% Rh / Pt - 30% Rh (B)	400	1800
Chromel / Constantan (E)	-200	850
Nicrosil / Nisil (N)	-200	1300
Pt100, 3-wire	-200	850
Linear (4~20 mA, 0~10 V)	-1999	9999



# PID CONTROLLERS

## MID RANGE

### CONNECTION DIAGRAM



# PID CONTROLLERS

## MID RANGE

**TABLE 2**

Product Photo			
Model	NEX601	NEX602	NEX605
Input type	TC, RTD, mA, V <sub>IN</sub>		
Size	48H x 48W x 85D mm	48H x 96W x 35D mm	96H x 96W x 35D mm
Display	Upper 0.64" / 16.3 mm Lower 0.35" / 9 mm	0.8" / 20.32 mm	Upper 1" / 25.4 mm Lower 0.56" / 14.2 mm
Relay output	2		
Isolated analog output	Isolated 1 x 0/4~20 mA or 0-10 V DC for control / retransmission output		
Transmitter excitation supply	Available		
Maximum configuration	A: 1 x Input, 2 x Relays, 1 x Analog output B: 1 x Input, 2 x Relays		

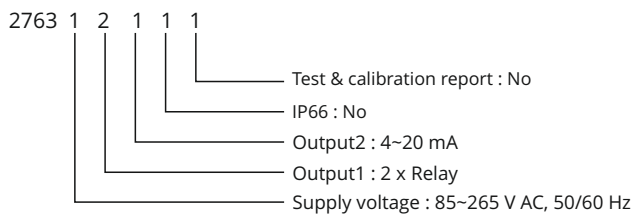
### ORDERING INFORMATION

#### MODEL : NEX601

##### Standard Order Codes \*

Product code	2763						
Supply voltage	1						85~265 V AC, 50/60 Hz
	2						20~30 V DC
Output1		0					No Relay
		1					1 x Relay
		2					2 x Relay
Output2			0				None
			1				4~20 mA
			2				0~10 V
IP66				1			No
				2			Yes
Test & calibration Report					1		No#
					2		Yes**

**EXAMPLE**



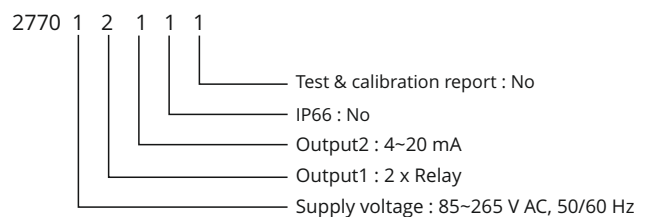
\* Contact sales for SSR drive outputs  
# Certificate Of Conformance is included  
\*\* Chargeable

#### MODEL : NEX602

##### Standard Order Codes \*

Product code	2770						
Supply voltage	1						85~265 V AC, 50/60 Hz
	2						20~30 V DC
Output1			0				No Relay
			1				1 x Relay
			2				2 x Relay
Output2				0			None
				1			4~20 mA
				2			0~10 V
IP66					1		No
					2		Yes
Test & calibration Report						1	No#
						2	Yes**

**EXAMPLE**



\* Contact sales for SSR drive outputs  
# Certificate Of Conformance is included  
\*\* Chargeable

# PID CONTROLLERS

## MID RANGE

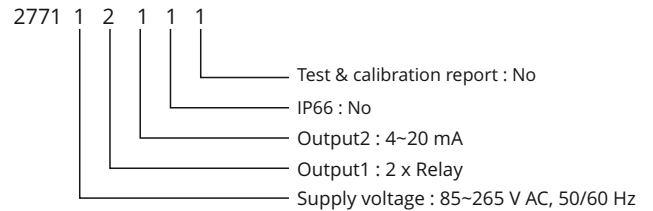
### ORDERING INFORMATION

**MODEL : NEX605**

**Standard Order Codes \***

Product code	2771						
Supply voltage	1						85~265 V AC, 50/60 Hz
	2						20~30 V DC
Output1		0					No Relay
		1					1 x Relay
		2					2 x Relay
Output2			0				None
			1				4~20 mA
			2				0~10 V
IP66				1			No
				2			Yes
Test & calibration Report					1		No#
					2		Yes**

**EXAMPLE**



\* Contact sales for SSR drive outputs  
 # Certificate Of Conformance is included  
 \*\* Chargeable

### PREFERRED ORDER CODES

Product	Order Code	Brief Specs	Power Supply
NEX601	2763 10011	Indicator	SMPS
NEX601	2763 10111	Indicator, Iout	SMPS
NEX601	2763 12011	2xRLY	SMPS
NEX601	2763 12111	2xRelay, Iout	SMPS
NEX602	2770 10011	Indicator	SMPS
NEX602	2770 10111	Indicator, Iout	SMPS
NEX602	2770 12011	2xRLY	SMPS
NEX602	2770 12111	2xRelay, Iout	SMPS
NEX605	2771 10011	Indicator	SMPS
NEX605	2771 10111	Indicator, Iout	SMPS
NEX605	2771 120 11	2xRLY	SMPS
NEX605	2771 12111	2xRelay, Iout	SMPS

CAT#646R2/A

**ENQUIRIES**

Instruments: sales@radix.co.in  
 Sensors: sensors@radix.co.in  
 Gauges: gauges@radix.co.in  
 Automation: automation@radix.co.in  
 Level: level@radix.co.in

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# PID CONTROLLERS

## ECONOMY RANGE

- COMPACT DESIGN WITH LOW DEPTH
- LARGE DISPLAY
- 1 RELAY
- IP66 / NEMA 4X (OPTIONAL)
- RELAY / SSR FOR CONTROL - FIELD SELECTABLE



**NEX313**  
48x48x61



**NEX316**  
48x48x61



**NEX353**  
96x96x35

# PID CONTROLLERS

## ECONOMY RANGE

### FEATURES

- Compact : 48x48x61 mm  
96x96x35 mm
- Large display : 13.20 / 9.9 mm (48x48)  
13.20 mm (48x48)  
20.32 mm (96x96)
- TC, RTD input
- Input sampling cycle 200ms
- 1 Relay for control
- Autotuning : From cold start
- Optional IP66 front
- PID, ON/OFF control
- 85~265 V AC SMPS, 20~30 AC/DC
- User friendly operation

### SPECIFICATIONS

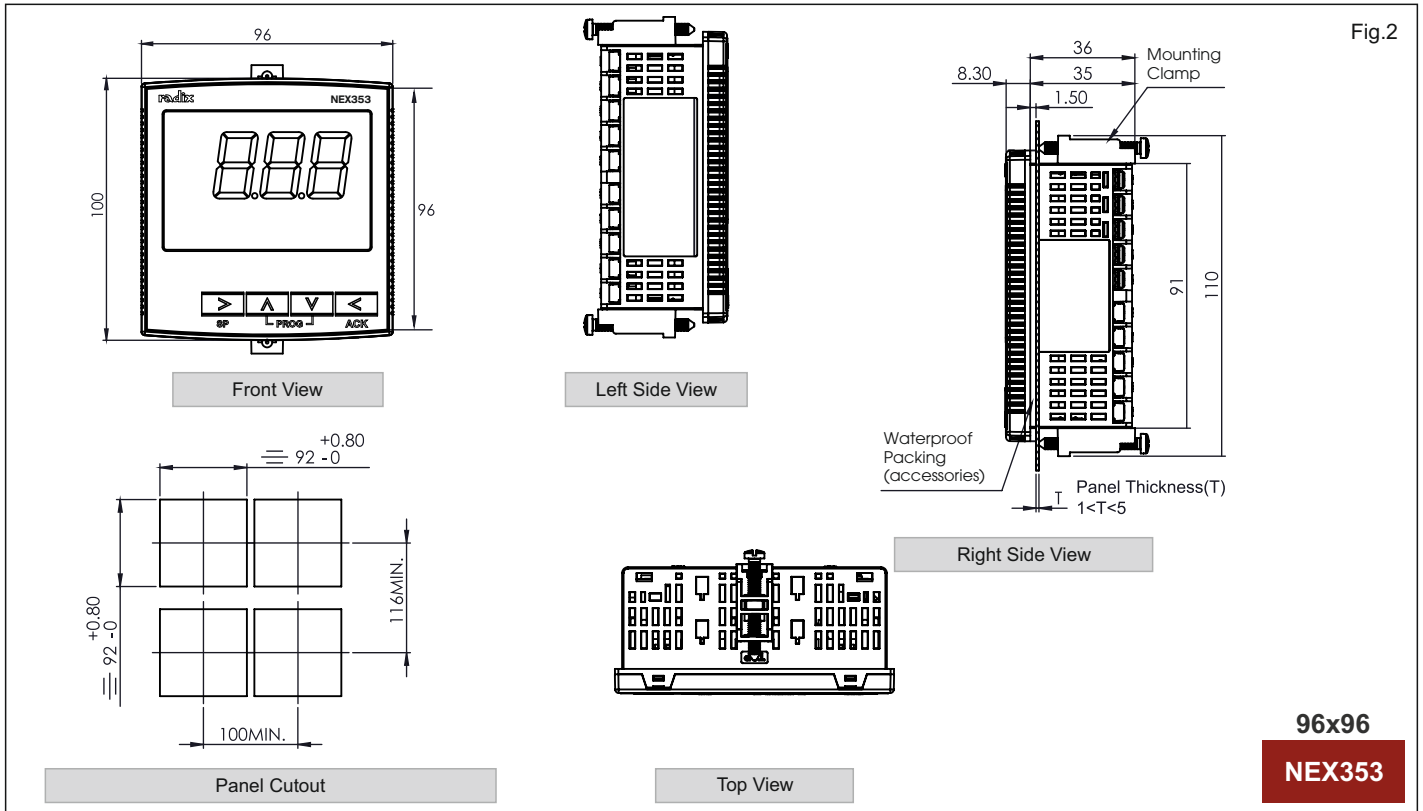
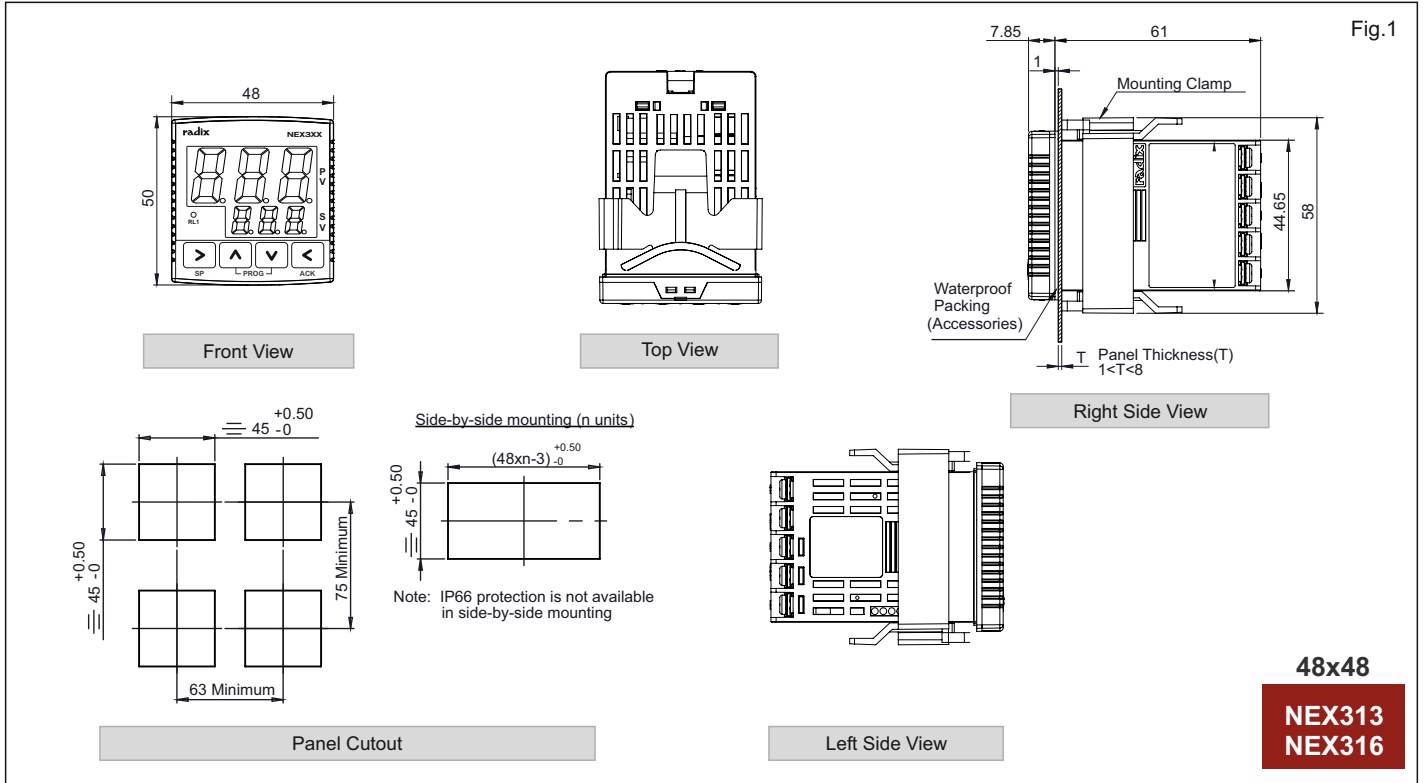
All specifications at ambient of 25 °C unless specified otherwise

<b>INPUTS</b> Input Thermocouple RTD Sampling time Range limits Accuracy  Warm up time for specified accuracy Cold junction compensation	J, K, R, S, T Pt100, 3-wire 200 ms See Table 1 Thermocouple : $\pm 0.25\%$ of FS $\pm 1$ °C Pt100 : $\pm 0.05\%$ of FS $\pm 1$ °C 30 minutes  Automatic	<b>TEMPERATURE, HUMIDITY</b> Ambient operating temperature Relative operating humidity  <b>PROGRAMMABLE PARAMETERS</b> Setpoint Unit Resolution Digital filter Bias Manual reset Proportional Band (P) Integral time (I) Derivative time (D) Cycle time Relay logic  Setpoint lock	-10 to 50 °C Below 90% RH, non-condensing  Full range (See Table 1) °C, °F Fixed 1 On, Off -99 ~ 99 -99 ~ 99 1~999, 0~100% of span Off, 0.1~99.9 minute Off, 0.1~99.9 minute 1~99 seconds a. Heat b. Cool c. Full scale high alarm d. Full scale low alarm ON, OFF
<b>OUTPUTS</b> No. of setpoints No. of relays Relay contact type Relay contact rating SSR drive	1 setpoint for control 1 NO-C-NC 7A/250 V AC 12 V DC drive signal for external SSR		
<b>INDICATION</b>	See Table 2		
<b>POWER SUPPLY</b> Supply voltage	a) 85~265 V AC, 50/60 Hz b) 20~30 V DC		
<b>ISOLATION</b> Mutual isolation between input, supply, relays	1500 VAC rms, 50Hz / 1 minute		
<b>ENCLOSURE</b> Mounting Terminals Housing material Dimensions (in mm) Weight Protection Front  Rear (behind panel)	Panel flush mounting M3 screw, suitable for 2.5 mm <sup>2</sup> wire ABS plastic, grade: UL94V-0 See Table 2 or Fig.1 See Table 2  IP66(IEC) / NEMA 4X (optional) (when properly installed using IP66 kit) IP20 (IEC 6052)		

# PID CONTROLLERS

## ECONOMY RANGE

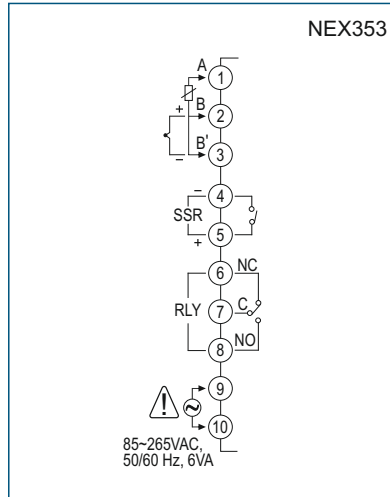
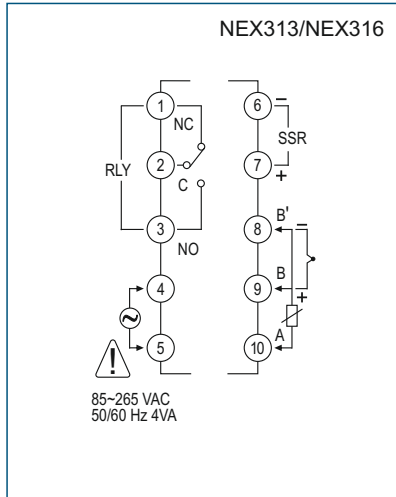
### DIMENSIONS mm



# PID CONTROLLERS

## ECONOMY RANGE

### CONNECTION DIAGRAM



### TABLE 1

SENSOR / INPUT	RANGE LIMITS (°C / EU)	
	LOW SCALE	HIGH SCALE
Iron / Constantan (J)	-100	850
Chromel / Alumel (K)	-199	999
Pt / Pt - 13% Rh (R)	0	999
Pt / Pt - 10% Rh (S)	0	999
Copper / Constantan (T)	-199	400
Pt100, 3-wire	-199	850

### TABLE 2

Product Photo			
Model	NEX313	NEX316	NEX353
Inputs type	TC, RTD		
Size	48H x 48W x 61D mm	48H x 48W x 61D mm	96H x 96W x 35D mm
Display	Upper 0.52" / 13.20 mm	Upper 0.52" / 13.20 mm Lower 0.39" / 9.90 mm	Upper 0.8" / 20.32 mm
Relay output	Relay - Control SSR - Control		
Analog output	Not available		
Communication	Not available		
Transmitter excitation supply	Not available		

# PID CONTROLLERS

## ECONOMY RANGE

### ORDERING INFORMATION

■ **Preferred order codes**

- In regular production
- Short delivery period
- Smaller minimum order quantity & value

■ **Standard order codes**

- All options available are found here
- Minimum order quantity & value will apply

- For Products not covered in preferred order codes & standard order codes, contact sales

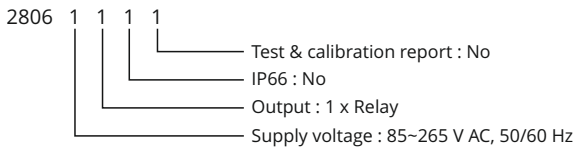
### STANDARD ORDER CODES

**MODEL : NEX313**

STANDARD ORDER CODES \*

Product code	2806				
Supply voltage	1				85~265 V AC, 50/60 Hz
	2				20~30 V DC
Output		1			1 x Relay
		2			1xRelay+1xSSR
IP66			1		No
			2		Yes
Test & calibration report				1	No#
				2	Yes**

**EXAMPLE**



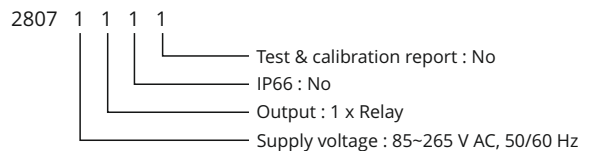
- \* Minimum order quantity & value will apply.
- \* For products not covered by standard order code, contact sales. Minimum order quantity & value will apply.
- # Certificate Of Conformance is included
- \*\* Chargeable

**MODEL : NEX316**

STANDARD ORDER CODES \*

Product code	2807				
Supply voltage	1				85~265 V AC, 50/60 Hz
	2				20~30 V DC
Output		1			1xRelay
		2			1xRelay,+1xSSR
IP66			1		No
			2		Yes
Test & calibration report				1	No#
				2	Yes**

**EXAMPLE**



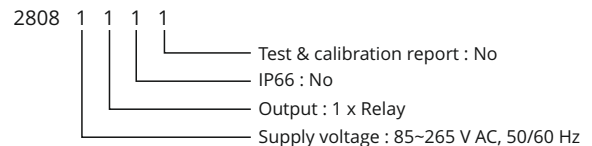
- \* Minimum order quantity & value will apply.
- \* For products not covered by standard order code, contact sales. Minimum order quantity & value will apply.
- # Certificate Of Conformance is included
- \*\* Chargeable

**MODEL : NEX353**

STANDARD ORDER CODES \*

Product code	2808				
Supply voltage	1				85~265 V AC, 50/60 Hz
	2				20~30 V DC
Output		1			1 x Relay
		2			1xRelay+1xSSR
IP66			1		No
			2		Yes
Test & calibration report				1	No#
				2	Yes**

**EXAMPLE**



- \* Minimum order quantity & value will apply.
- \* For products not covered by standard order code, contact sales. Minimum order quantity & value will apply.
- # Certificate Of Conformance is included
- \*\* Chargeable



# PID CONTROLLERS

## ECONOMY RANGE

### PREFERRED ORDER CODES

Product	Order Code	Brief Specs	Power Supply
NEX313	2806 1111	1xRelay, SMPS	SMPS
NEX313	2806 1211	1xRelay+1xSSR	SMPS
NEX316	2807 1111	1xRelay, SMPS	SMPS
NEX316	2807 1211	1xRelay+1xSSR	SMPS
NEX353	2808 1111	1xRelay, SMPS	SMPS
NEX353	2808 1211	1xRelay+1xSSR	SMPS

**Note :** For only SSR output instead of Relay output Contact sales

#### ENQUIRIES

**Instruments:** sales@radix.co.in  
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**Automation:** automation@radix.co.in  
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