AMETEK®
SOLIDSTATE CONTROLS

PRO-Series Nuclear Bargraph Order Guide

$ Amount Each: _____
Quantity: _____

Sample Part Number: B B V R R 1 R H Y 1 M D L X B X 0 3 - 6 8 [ ]

Part Number (use for single-bar models and for left or top bar on dual-bar models):

Use this line only for right (vertical) or bottom (horizontal) bar on dual-bar models:

Instructions for last 5 or 6 digits are the Bargraph Scaleplate and Caption Selection Instructions

Safety Qualification
IE Safety Related = Q Seismic Only = T

Model
A101P = B N101P = J T033P = T
A202P = C L101P = L S101P = V
H101P = G* N202P = M S202P = X
H202P = H* L202P = O

Bargraph Orientation
Vertical = V Horizontal = H (not available on all models)

Bargraph Color
Amber = A Red = R (default) Tricolor = T[1]
Green = G

Digital Option Color[2]
Amber =A Red = R (default)
Green =G None = X

Decimal Location*
000.0 = 1 00.00 = 2** 0.000 = 3** 0000 (None) = X

Set Point Options/Annunciator LED Color
Amber = A Green = G Red = R
Special = S None = X

Alarm Set Point[3]
HI/HI = H LO/LO = L HI/LO = A None = X

Program Switches (Not available on A202P)
None = X Yes = Y (default)

Primary Power
1 = 115 VAC D= Dual
2 = 230 VAC

Signal Units[4]
Amperes = A °Centigrade = C Milliamperes = M Microamperes = U
Millivolts = B °Fahrenheit = F Other = O Volts = V

Conformal Coating
None, standard terminals = X
Yes, standard terminals = Y
Barrier strip terminals = B
Special (combination of above) = S
Military-style terminals[6] = M

Bar Start Location
Bottom = B Dot Mode1 = 1
Center = C Dot Mode 3 = 3
Top = T Dot Mode 5 = 5
Offset = O

Option Board Selection[5]
See Note 5 before continuing.
1 = Isolated 2-Wire Retransmission
2 = Auxiliary Power Supply, Regulated 10 VDC
3 = Auxiliary Power Supply, 28 VDC
4 = Auxiliary Power Supply, Regulated 24 VDC
5 = Serial Communications, Receive Only (RS-422)
7 = Serial Communications, Receive/Transmit (RS-422)
A = AC/DC Converter (required for all AC sensitivities)
B = DC Gain (for signals less than 1 VDC full scale e.g., 50 mVDC)
S = Special (combinations of above)
X = None present

Temperature Measurement
Enter letter of desired thermocouple type (E, J, K or T). Enter R for 100-ohm RTD or O for other (enclose specification).

Signal Linearity Characteristics
L = Linear X = Nonlinear (RTD and T/C or attach data table)
Q = Square Root

Signal Type
A = AC O = Other (RTD and TIC) D = DC

ID Tags: ☐None ☐Paper (no charge) ☐Metal (additional charge) Tag Number to read:

Miscellaneous: ☐Certificate of Compliance ☐Special Packaging *Select all that apply and attach specifications*

Notes:

1. Bargraph Color: Tri-color is only available on Model T033P; bar segments at which the colors change are programmable during manufacturing only
Indicate desired colors and values as a percentage of full scale.
Color _____ From _____ % To _____ %
Color _____ From _____ % To _____ %
Color _____ From _____ % To _____ %

2. Digital Option:
*Single (or Dual Left) Channel: Start value _____ + / - (select one) End value _____ + / - (select one)
*Dual (Right) Channel: Start value _____ + / - (select one) End value _____ + / - (select one)

3. Alarm Set Point: This is for the alarm set point only. Option A applies only to models J, L, M, O, T, V and X where only two relay outputs are available.

4. Signal Units: (enter the starting and ending values including signal type (mADC, VDC, AC, mVDC, AAC, J/K/T/E Thermocouple, RTD, etc.):
Single (or Dual Left) Channel: Start value _____ + / - (select one) End value _____ + / - (select one)
Dual (Right) Channel: Start value _____ + / - (select one) End value _____ + / - (select one)

5. Option Board Selection: Options 1, 2, 3, 4, 5, 7 and Temperature Measurement are not available in combination with Options A or B nor are they available on H101P/H202P. Only Options A or B are available on Model A202P. The only option available with Models T033P, S101P and S202P is Temperature Measurement.

6. Terminals: Military style connector available only on models N101P and N202P.

General
*For G101 P (G) and G202P (H) units, the maximum negative reading allowed is -999. Amber digital option not available for T033P. Set point/relay option is not available

**For 0-100 scales, more than 1 decimal place cannot be included.

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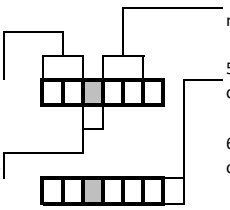
Bargraph Scaleplate and Caption Selection Instructions

(Use this page to configure the last five or six digits of part number on page 1)

1. In Table 1 below, find the Full Scale Value you want to appear on your scaleplate.

2. Note the smaller two-digit ID number found in the upper left corner of that block and write that number here.

3. For + and - range numbers on the scaleplate, insert a "-/+" or a "+/-" here (see examples). Otherwise leave this digit blank.

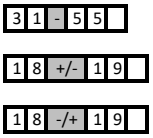


4. Select a scaleplate caption from Table 2 and write its two-digit ID number here.

5. If you have a dual bargraph, repeat the process for the right-side caption and write the ID numbers for the right side here.

6. Transfer these numbers to the last five or six digits of the part number on page 1.

Examples:



3 1 - 5 5 — 500 liters full scale

1 8 +/- 1 9 — + to - 25 VDC full scale

1 8 -/+ 1 9 — - to +25 VDC full scale

If you desire a custom scale, attach a drawing of your scale to your order. The factory will assign a custom 5 or 6-digit number.

01 — 1	02 — 10	03 — 100	04 — 1000
05 — 1.2	06 — 12	07 — 120	08 — 1200
09 — 1.5	10 — 15	11 — 150	12 — 1500
13 — 2	14 — 20	15 — 200	16 — 2000
17 — 2.5	18 — 25	19 — 250	20 — 2500
21 — 3	22 — 30	23 — 300	24 — 3000
25 — 4	26 — 40	27 — 400	28 — 4000
29 — 5	30 — 50	31 — 500	32 — 5000
33 — 6	34 — 60	35 — 600	36 — 6000
37 — 7.5	38 — 75	39 — 750	40 — 7500
41 — 8	42 — 80	43 — 800	44 — 8000
45 — 9	46 — 90	47 — 900	48 — 9000
			99 — None

Table 1 - Full Scale Values

Caption	ID#
AC	
AC AMPERES	01
AC KILOAMPERES	02
AC KILOVARS	03
AC KILOWATTS	04
AC MEGAWATTS	05
AC MILLIAMPERES	06
AC MILLIVOLTS	07
AC VARS	08
AC VOLTS	09
AC WATTS	10
AC KILOVOLTS	11
TEMPERATURE	
DEG C	22
DEG F	23
DEG K	24
FLOW RATE	
CFM	34
CPM	35
FPM	36
GPM	37
GPH	38
IPM	39
KPM	40
LPM	41
MPM	42
PPM	43
RPM	44
MGD	45
VOLUME/WEIGHT	
LITERS	55
GRAMS	57
GALLONS	58
LBS	59
KILOGRAMS	60
TONS	61
DM^3	62
CM^3	63
M^3	75

Caption	ID#
DC	
DC AMPERES	13
DC KILOAMPERES	14
DC KILOVOLTS	15
DC MICROAMPERES	16
DC MILLIAMPERES	17
DC MILLIVOLTS	18
DC VOLTS	19
AMPS	20
VOLTS	21
PRESSURE (VACUUM)	
PA	25
PSI	26
PSIA	27
PSID	28
PSIG	29
IN HG	56
MM HG	31
IN H2O	32
MM H2O	33
KPA	76
BAR	77
MBAR	78
LEVEL (LENGTH)	
FEET	47
METERS	48
CENTIMETERS	49
INCHES	50
MILLIMETERS	52
INCHES WC	53
MISCELLANEOUS	
GENERATOR AMPS	64
HERTZ	65
KILOWATTS	66
MEGAWATTS	67
%	68
% CURRENT	69
% LOAD	70
% OPEN	71
PHASE ANGLE	72
POWER FACTOR	73
WATTS	74
NONE	99

Table 2 - Captions

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