Instruction Manual

YEW SERIES 80

SPLR-100/LPRnn
Limited Function Program
(Optional Features)

YOKOGAWA ◆

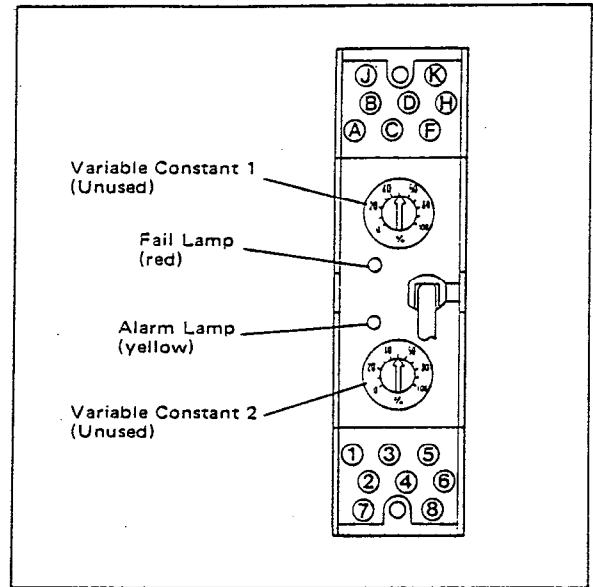Yokogawa Electric Corporation

1. GENERAL.

Use this instruction manual as well as SPLR Programmable Computing Unit instruction manual IM 1B4L3-01E for reference when you purchase our SPLR Programmable Computing Units with their optional features "Limited Function Program LPRnn".

2. OPTIONAL CODES AND COMPUTATION EXPRESSIONS.

Optional Codes	Computation Expressions
/LPR01	$Y_1 = Y_2 = K_1 X_1 + K_5$
/LPR02	$Y_1 = Y_2 = K_1 X_1 + K_2 X_2 + K_5$
/LPR03	$Y_1 = Y_2 = K_1 X_1 + K_2 X_2 + K_3 X_3 + K_5$
/LPR04	$Y_1 = Y_2 = K_1 X_1 + K_2 X_2 + K_3 X_3 + K_4 X_4 + K_5$
/LPR05	$Y_1 = Y_2 = K_4 (X_1 + K_1)(X_2 + X_2)$
/LPR06	$Y_1 = Y_2 = \dfrac{K_4(X_1 + K_1)}{(X_3 + K_3)}$
/LPR07	$Y_1 = Y_2 = \dfrac{K_4(X_1 + K_1)(X_2 + K_2)}{(X_3 + K_3)}$
/LPR08	$Y_1 = Y_2 = \sqrt{K_4(X_1 + K_1)(X_2 + K_2)}$
/LPR09	$Y_1 = Y_2 = \sqrt{\dfrac{K_4(X_1 + K_1)}{(X_3 + K_3)}}$
/LPR10	$Y_1 = Y_2 = \sqrt{\dfrac{K_4(X_1 + K_1)(X_2 + K_2)}{(X_3 + K_3)}}$
/LPR11	$Y_1 = Y_2 = \sqrt{\dfrac{K_2 X_2 + K_4}{K_3 X_3 + K_5} \cdot K_1 X_1}$
/LPR13	Model YL100 combining with PB flume. Linearizes a signal (X_1) of ultrasonic level meter converter using line-segment approximation (20 segments) to flow and outputs it as Y_1, and Y_2. In addition, converts the signal into pulses to make an output signal (DO1) for totalization.
/LPR14	Linearizes a signal of level instrument used with partial flume or weir flow meter (without linearizing function) using line-segment approximation (20 segments) to flow and outputs it as Y_1 and Y_2. In addition, converts the signal into pulses to make an output signal (DO1) for totalization.

The constant Kn is written in ROM and indicated on the label attached to the instrument side panel.

3. FRONT PANEL AND SIGNAL CONNECTIONS.

Instrument Front Panel

Signal Connections

Terminals	Signals
1 / 2	+ − Analog input X_1
3 / 4	+ − Analog input X_3
5 / 6	+ − Analog input X_2
7 / 8	+ − Analog input X_4

Terminals	Signals
A / B	+ − Analog output Y_1
C / D	+ − Puls output DO1
F / H	+ − Analog output Y_2
J / K	+ − Fail