

FC SERIES INTEGRATOR

DATA SHEET PKE

This is a 6-digit analog integrator which displays an integral upon receiving FC SERIES signals or signals from slide rheostat.

FEATURES

- 1. Accuracy of ±0.5%.
- 2. A variety of integral levels are available for free choice, optimum for process lines.
- 3. The instrument permits transmitting pulses up to 10 times as many as the integral level selected.

The integrator can easily be connected to a computer through a remote data transmission system.

The output stage is prepared in three types for optional choice in accordance with practical requirements.



SPECIFICATIONS

Measuring signal:FC SERIES signal DC 1 to 5V

DC 4 to 20mA

Wiring resistance:5 Ω or less per wire

Circuit resistance adjustment unneces

sary (for slide rheostat)

Input resistance :1M Ω (DC 1 to 5V)

 250Ω (DC 4 to 20mA)

Allowance

Input 5 to 100%	Input less than 5%
Within ±0.5% of rating	Within ±1% of rating

Rated value means the theoretical value to be obtained when 100% input is continuously applied and integrated.

Display mode : Decimal 6-digit electromagnetic counter

(with click-touch reset pushbutton)

Integral level :Value to be integrated for 1 hour at

100% input:

50 100 200 250 300 400 500 600 750 800 900 1000 1200 1500 1600 1800 2000 Power supply :DC24V (20 to 30V or

AC 100V 10%, 50/60 Hz)

Power consumption:

Approx. 6W (DC 24V) Approx. 9VA (AC 100V)

(including power consumption by pulse

transmitter)

Power indicator lamp:

Rectangular green LED

Ambient temperature:

0 to 45°C

Ambient humidity:

90% RH (MAX)

Enclosure :Steel case External dimensions (HxWxD):

 $144 \times 72 \times 400$ mm (casing) + terminal

board

Mass (weight) :Approx. 4.5kg
Finish color :Munsell 7Y 7.3/1.4

Optional devices: Pulse transmitter

Number of transmission pulses:

Integral x 1, 2, 5, 10 Output contact; 1a contact

(excluding semi-conductor output

contact) Type of contact; Relay contact

Contact capacity

AC 100V, 0.3A/DC 24V, 0.2A

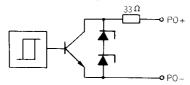
(resistive load)

Dielectric strength between con-

tact and ground:

AC 500V for 1 min

Contactless pulse*



Output stage of semiconductor contact

Load current; 50mA or less

Dielectric strength

Between PO+ and ground

AC 500V for 1 min

Between PO+ and PO-: DC 33V

Integration cutoff:

Integration starts at 10% or higher when

input is increased from 0%

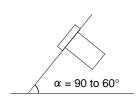
Accuracy of cutoff point: +0% -0.5%

Hysteresis: 1% or iess

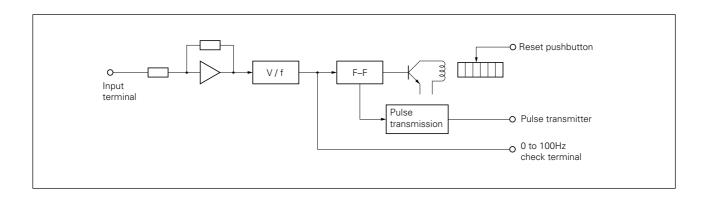
Scope of delivery:

Integrator and mounting bracket

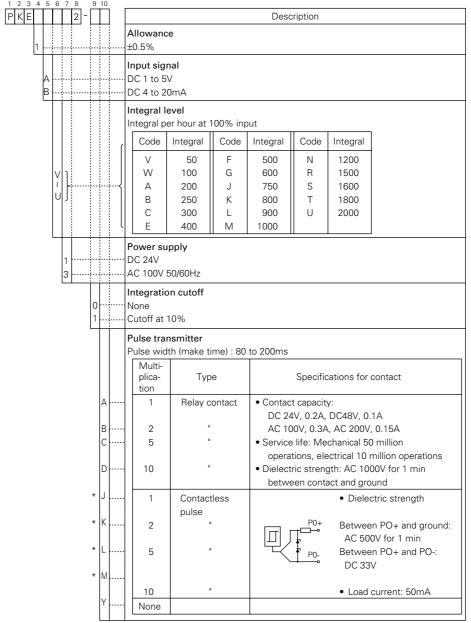
Mounting: Panel flush mounting



BASIC OPERATING PRINCIPLE DIAGRAM

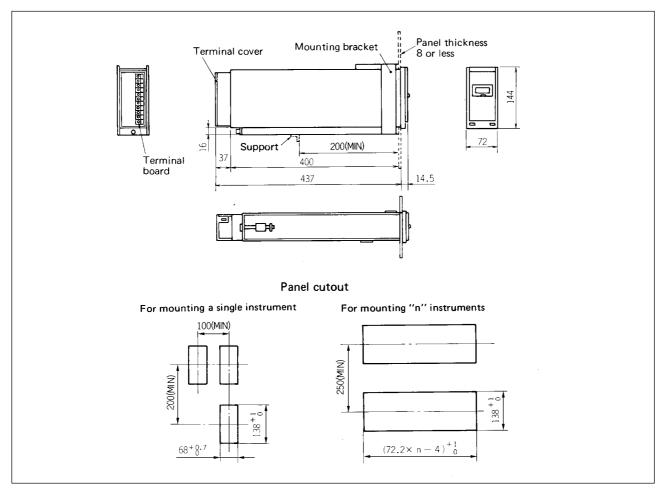


CODE SYMBOLS

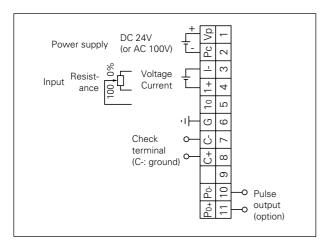


^{*} Asterisked (*) items: Nonstandard

OUTLINE DIAGRAM (Unit: mm)



CONNECTION DIAGRAM



*Before using this product, be sure to read its instruction manual in advance.

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