

Model Engineering College,
Thrikkakara, Cochin 21

No.A2/685A2021/MEC

18.3.2021

Quotation No. 11/2020-21/MEC

QUOTATION NOTICE

Sealed superscribed quotations are invited for the 'purchase of Process Control Stimulator , Programmable Logic Controller trainer with software and Synchro Transmitter Receiver Trainer for Electrical department ' of the institution.

The envelope containing the quotation should bear the superscription ' purchase of Process Control Stimulator ,Programmable Logic Controller trainer with software and Synchro Transmitter Receiver Trainer for Electrical department ' should be addressed to the principal, Model Engg College, Thrikkakara,cochin-21.Intending tenderers may submit the quotation on their own papers . Last date of receipt of quotation is 28/4/2021 ,11am and late quotation will not be accepted. The quotation will be opened at 12.00 noon on the same day in the presence of such tenderers or their representatives who may be present at that time.

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PRINCIPAL

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Specification

1. Process Control Stimulator

1 no

Process Time constant of simple lags -10ms (fast) of 1ms(slow) Time constant of Integrators - 10ms (fast) of 1ms(slow) Distance - velocity lag - 10ms **Controller** Set Value Range- 0 to + 10V Integral action Time range(T_i)- 250ms to 5 ms (fast); 25s to 0.5s (slow) Derivative action Time range(T_d)- 0-20ms (fast); 0-2 s (slow)Proportional Band (PB)-Corresponding to gain constants 0.5 to 25.

2. Programmable Logic Controller trainer with software

1 no

24 Vdc / 3 A power supply for control of the digital inputs and outputs. With electronic protection against short-circuits and overloads, • 24 Vac / 3 A power supply for relay output control. With fuse protection against overload, • 1 3 1/2-digit digital voltmeter for measurement of the voltage present across the inputs or the analog output. 0.1Vdc resolution, • 4 Analog inputs V / I: ± 10 Vdc, 0..20 mA, • 1 Analog output V / I: ± 10 Vdc, 0..20 mA, • 4 Rotating potentiometers for setting up analog references in the range 0..10 Vdc, • Inner voltage reference obtained via 24 Vdc inner stabilizer, • 14 Digital standard inputs of which 6 special for fast counting, frequency measurements, • Digital input simulator with permanent and pulse state switches, • 18 24 Vdc digital transistor outputs of which 2 20-kHz pulse ones with possibility of interrupt; adjustable pulse duration, • 10 Digital outputs interfacing with relay without potential and range between 10 Aac / 2 Adc.

3. Synchro Transmitter Receiver Trainer

1 no

Rotor Voltage: 50V AC, 50Hz, Induced Stator Voltage: 22V AC, 50Hz three phase, The input and output angular displacement is indicated in a round dial marked with angular position (0-360°), Rotor (R1, R2) and Stator (S1, S2,S3) terminals of transmitter & receiver are terminated by banana connector in the base plate, One no. of Digital AC Voltmeter used to indicate stator/rotor voltage of transmitter (or) receiver, one no. . of 230V/50V AC Step-down transformer for rotor voltage input, Two nos. of ON/OFF switch for rotor voltage of transmitter/receiver, One no. of power ON/OFF switch with indication, All are mounted on a nice cabinet.



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