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The Neff Advantage

Since 1956

Located in Monrovia, California not far from Pasadena, NEFF Instruments has been a leading manufacturer of high

performance data acquisition equipment since its founding in the mid 1950s by Glyn Neff.

System 470

System 620/600

System 471

System 472

System 730

System 495

System 470 Function Cards

DA23350

DA23535

6715450306

KAR-3-3205 KGF-N-3205/Tr 36x6

TGS-RPTS-Tr-36x6-LH-K82-A-462-0

89026352

9002335012

470100

90023535

470051

TGS-RPTS-TR-28X5-T5-RH-1050

470010 32-Bit   TTL Input

470011 16-Bit   Isolated Digital Input-AC/DC Signals, 1000V isolation.

470012 2-CH   Freq. or Period Input

470013 32-Bit   TTL Input/Output

470014   ARINC-429 Controller

470015 2-CH   Widerange Freq. or Period Input - programmable modes.

470030 32-Bit   TTL Output

470031 8-Point   Form 'C' Relay Output - latching relays

470050 16-CH   Differential Multiplexer - 10 Hz filter per channel

470051 16-CH   Differential Mux w/Open Source-w/filter

470052 16-CH   Differential Mux w/4-20mA Input- w/filter

470054 4-CH Bridge   Conditioner/Mux - w/multiplexer, amp & filter

470055 4-CH   RTD Conditioner/Mux-w/multiplexer, amp & filter

470056 16-CH   Transformer-coupled Mux- 1000V CMV

470059 16-CH   Multiplexer, Direct Input- w/o filter

470070 2-CH   16-Bit DAC Output

470071 16-CH   12-Bit DAC Output

470081 16   Channel Isothermal Connector

470085   Calibration Card

System 471 Function Cards

470010 32-Bit   TTL Input

470011 16-Bit   Isolated Digital Input-AC/DC Signals, 1000V isolation.

470012 2-CH   Frequency or Period Input

470013 32-Bit   TTL Input/Output

470014   ARINC-429 Controller

470015 2-CH   Widerange Frequency or Period Input -programmable

470030 32-Bit   TTL Output

470031 8-Point   Form 'C' Relay Output- latching relays

470052 16-CH   Differential Mux w/4-20mA Input - w/filter

470058 4-CH   Isolation Amplifier

47036X Mode   Cards For Iso-Amp

470059 16-CH   Multiplexer, Direct Input- w/o filter

470070 2-CH   16-Bit DAC Output

470071 16-CH   12-Bit DAC Output

System 472 Function Cards

472010 32-Bit   TTL Input

472011 16-Bit   Isolated Digital Input-AC/DC Signals, 1000V isolation.

472012 2-CH   Frequency or Period Input

472013 32-Bit   TTL Input/Output

472015 2-CH   Widerange Frequency or Period Input - programmable

472030 32-Bit   TTL Output

472031 8-Point   Form 'C' Relay Output - latching relays

472052 16-CH   Differential Mux w/4-20mA Input - w/filter

472059 16-CH   Multiplexer, Direct Input - w/o filter

472060 16-CH   Programmable Gain Amp/Filter

472070 2-CH   16-Bit DAC Output

472071 16-CH   12-Bit DAC Outpu

472081 16   Channel Isothermal Connector

System 495 Function Cards

495200 Input/Control Assembly   with SCSI Interface (16 slots)

495101 Expansion   Input Assembly (16 Slots)

495070 250 kHz Prog.   Amp/Filter with 16-bit ADC and 1 meg Ram

495071 250 kHz Prog.   Amp/Filter with 16-bit ADC and 16 meg Ram

495072 250 kHz Prog.   Amp/Filter with 16-bit ADC and 32 meg Ram

495073 250 kHz Prog.   Amp/Filter with 16-bit ADC and 64 meg Ram

495080 1 MHz Prog.   Amp/Filter with 14-bit ADC and 1 meg Ram

495081 1 MHz Prog.   Amp/Filter with 14-bit ADC and 16 meg Ram

495082 1 MHz Prog.   Amp/Filter with 14-bit ADC and 32 meg Ram

495083 1 MHz Prog.   Amp/Filter with 14-bit ADC and 64 meg Ram

495085 8 Input   Trigger Module

System 620/600   Function Cards

620650 - 4   Channel Preamp with 2-Pole Butterworth Filter

620654 - 4   Channel Preamp with 6-Pole Butterworth Filter

System 730   Function Cards

2-Channel programmable gain amplifier   card with transducer conditioning

24 Bit Isolated TTL input card

·   The NEFF System 470 (S470) DAS is a complete, low cost moderate-speed DAS for use in computer-based applications. The S470 is designed primarily for computer automated data acquisition in test facilities, laboratories and industrial plants or wherever a moderate-speed DAS is required.

·   The S470 is designed to accept analog inputs ranging from 5mV to 10.24V full scale in 12 programmable steps. Signal conditioning for sensors such as strain gages, RTDs, potentiometers and thermocouples is supplied by standard S470 function cards thus eliminating the need for external sources. Other function cards support digital I/O, frequency measurement and analog output.

·   S470 consists of a 7-inch high, 19-inch wide enclosure with power supply, backplane wiring, I/O Control Logic printed circuit card, Analog Subassembly printed circuit card and 16 I/O card slots that accept any combination of S470 function cards. A Control/Display panel is optional and an expansion assembly is available to extend function card capacity to 32. The maximum number of channels or data points to be serviced depends on the type of function cards used. Thirty-two 16-channel Multiplexer cards, for example, provide 512 channels of analog input while a full complement of 32-bit TTL input cards accommodate 1024 single data points.

·   The Series 600 is NEFF's top-of-the-line data acquisition system providing the utmost in performance, accuracy and convenience. Featuring leading-edge technology and innovative design, Series 600 brings extensive automation and complete programmability to the testing laboratory.

·   The key to Series 600's high performance is the effective combination of fully programmable preamp/filters, programmable post amplifier, sophisticated microprocessor-controlled calibration circuits and the amplifier-per-channel data acquisition technique that realizes the lowest noise level and highest common mode rejection obtainable in a data acquisition system.

·   Programmable Gain Over the Full Dynamic Range With programmable gain, test setup time is greatly reduced as is the bother and confusion of manual switch settings. In Series 600 the range of each channel is programmable from +/- 5mV full scale to +/- 10.24V full scale in 12 binary steps.

·   Preamps Include Programmable Filter Two types of input preamps are available in Series 600 to allow both static and dynamic measurements. Both have programmable filter cutoff frequencies of 1Hz, 10Hz, 100Hz and 1kHz. Low-level differential preamps (620650 and 620654) have 2-pole and 6-pole Butterworth filters, respectively.

·   The sample and hold preamp (620654) permits simultaneous sampling of multiple low-level

input channels and is used where minimum channel-to-channel skew is required. both preamps have fully guarded inputs and operate from grounded or floating signal sources.

· Automatic Calibration On command the internal microprocessor takes over control of the Series 600 and begins a sequence of steps to derive and store calibration factors for each channel. The calibration data is stored in on-board memories and during run mode are summed with the post amplifier output voltage to obtain fully calibrated signals for conversion by the ADC.

· The automatic calibration procedure results in static accuracy of (0.02%