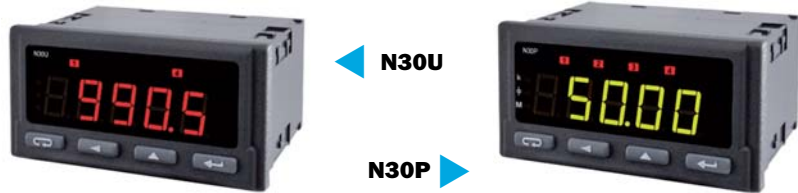


Sifam Tinsley Digital Panel Meters

N30 Series

- 3-color, 5-digit LED Display
- AC or DC Operation
- Min/Max Storage
- Up to 4 Alarm Outputs with 6 Alarm Modes
- RS-485 Modbus & Analog Output Options
- Galvanic Isolation - Inputs/Outputs/Power
- Real Time Clock
- IP65 Front



N30P Power Meter

- Measure Single Phase Network Parameters: Voltage, Current, Reactive & Apparent Power, $\cos\phi$, $\tan\phi$, ϕ , Frequency, Active, Reactive and Apparent Energy, 15 minutes Active Power, 10 minutes Voltage, 10 seconds Frequency
- Energy Pulse Output
- Direct Connect up to 5A & 400V AC

N30P Input	Measuring Range	Rating	Ratio Values
Voltage	0-100 V or 0-400 V	0.05-1.2 Vn	0.1-4000.0
Current	0-1 A or 0-5 A	0.005-1.2 In	1-100000
Input Signal	Indication Range	Measure Range	Basic Error
Voltage	0.0-1.92 MV	2.0-480 V	$\pm 0.2\%$
Current	0.000-60 kA	0.025-6.000 A	$\pm 0.2\%$
Frequency	45.00-100.00 Hz	45.00-100.00 Hz	$\pm 0.2\%$
Active Power	-19999 to 9999 MW	± 2.88 kW	$\pm 0.5\%$
Reactive Power	-19999 to 9999 Mvar	± 2.88 kvar	$\pm 0.5\%$
Apparent Power	-19999 to 9999 MVA	± 2.88 kVA	$\pm 0.5\%$
$\cos\phi$	-1 to 1	-1 to 1	$\pm 0.5\%$
$\tan\phi$	-1.2 to 1.2	-1.2 to 1.2	$\pm 1\%$
ϕ	0 to 359	0 to 359	$\pm 1\%$
Active Energy	0-9999999.9 kWh	0-9999999.9 kWh	$\pm 0.5\%$
Reactive Energy	0-9999999.9 kVarh	0-9999999.9 kVarh	$\pm 0.5\%$
Current Time	00.00 to 23.59	00.00 to 23.59	1 sec/24h

SPECIFICATIONS

Display:	Three color 5 digit LED, -19999 to 99999; Color changes red/green/orange depending on reading
Serial Communication:	Modbus RTU protocol, 4.8-115 kbits/sec.
Operating Environment:	-25 to 55°C, 25-95% RH, non-condensing
Supply Voltage:	85-253 V dc/ac or 20-40 V dc/ac (40-400 Hz), <6VA
Protection:	IP65 front, IP10 case
Working Voltage (max):	N30H, N30P input to earth: 600V CAT II, 300V CAT III; N30U input to earth: 50V; All models: Power line to earth: 300V; all other circuits: 50V
Isolation:	Galvanic separation between terminals: alarm, supply, inputs, analog output, auxiliary supply, RS-485
Connections:	Plug-in screw terminal blocks
Dimensions:	96 x 48 x 93 mm, 92 x 45 mm panel cutout
Analog Output:	0-20mA /4-20mA (load resistance <500 Ω); 0-10V (load resistance >500 Ω); Accuracy 0.2% of set range
Auxiliary Power:	Internal 24Vdc @30mA (N30U with 85-265V supply only)
Relay Outputs:	Standard: 2 SPST (form A), 0.5A @ 250VAC Optional: 2 additional SPDT (form C), 0.5A @ 250VAC
OC Voltage Output:	N30U, N30H: Passive NPN, 30V dc @30mA
Energy Pulse Output:	N30P: 5000 imp/kWh, independent of Ku & Ki settings; passive OC, 18-27V dc supply, 10-27mA

N30H DC Volt/Amp Meter

- Measure to 600V DC or 5A DC
- 21-point Table Function

N30H Input Signal	Measuring Range	Class
± 500 V dc	± 600 V dc	0.1
± 100 V dc	± 130 V dc	0.1
± 5 A dc	± 6 A dc	0.1
± 1 A dc	± 2 A dc	0.1
Current Time	00.00 to 23.59	0.5 sec/24h

N30U Temperature/Process Meter

- Measure Temperature, Resistance, Process Voltage & Current
- 21-point Table Function

N30U Input Signal	Measuring Range	Class
Pt100	-205 to 855°C	0.1 (+0.5°C)
Pt500	-205 to 855°C	0.1 (+0.5°C)
Pt1000	-205 to 855°C	0.1 (+0.5°C)
400 ohm	0 to 410 Ω	0.1 (+0.2 Ω)
4000 ohm	0 to 4010 Ω	0.1 (+0.2 Ω)
Thermocouple Type J	-200 to 1200°C	0.1 (+1°C)
Thermocouple Type K	-200 to 1370°C	0.1 (+1°C)
Thermocouple Type N	-200 to 1300°C	0.1 (+1°C)
Thermocouple Type E	-200 to 1000°C	0.1 (+1°C)
Thermocouple Type R	-50 to 1768°C	0.1 (+1°C)
Thermocouple Type S	-50 to 1768°C	0.1 (+1°C)
Voltage 0-10V	± 13 V	0.1
Current	± 24 mA	0.1
mV	-10 to 63 mV	0.1
Current Time	00.00 to 23.59	0.5 sec/24h

ORDERING INFORMATION

To Order—Insert Code for Each Letter to Select Catalog Number.

Example: N30H-110000U0

A - B - C - D

A	Model	
	N30H	DC Volt/Amp Meter
	N30U	Temperature/Process Meter
	N30P	Single Phase Power Meter
B	Operating Voltage	
	1	85-253 V ac/dc
	2	20-40 V ac, 20-60 V dc*
C	Options	
	0	None
	1	RS-485, 2 OC outputs, analog output
	2	RS-485, 2 OC outputs, analog output, 2 additional SPDT (form C) relay outputs
D	Version	
	0000U0	USA

*40V dc max on N30P