




















		72 x 36	48 x 48 (1/16 DIN)	48 x 96 (1/8DIN)	96 x 96 (1/4DIN)	
MULTICHANNEL MODELS				 8 Channels °C/°F bar 0...10V 4...20mA 2308	 2 Channels °C/°F bar 0...10V 4...20mA 40TB	Plastics, Plants
	HIGH-PERFORMANCE MODELS	High speed High resolution		 4 Channels 2400	Kg bar  Potentiometers °C/°F 0...10V 4...20mA	Climatic chambers, Dosers, Pressure, Test benches, Laboratories
UNIVERSAL MODELS	RPM Frequency			 40F96	Hz RPM	Plastics, Various
	V/Aac		 4A48 40A48	 4A96-40A96	V/Aac	Plastics, Various
	Pressure Force Position		 40B48	 4B96-40B96	Kg  Potentiometers Magnetostrictives	Plastics, Packaging
	Temperature Linear Potentiometers	 4T72 40T72	 4T48 40T48	 4T96-40T96	 Potentiometers °C/°F 0...10V 4...20mA	Plastics, Packaging, Wood, Metal, Ovens

LEGEND:  PC configuration ●  Modbus TCP/RTU

	 40A 48 / 40A 96 Alternating current and voltage alarm unit	 40B 48 Alternating current and voltage alarm unit	 40B 96 Pressure, force, position alarm unit
Front panel dimensions	48 x 48mm (1/16 DIN) / 96 x 48mm (1/8 DIN)	48 x 48mm (1/16 DIN)	96 x 48mm (1/8 DIN)
Inputs : Number of analog inputs	1		
Sampling time	120msec	120 - 60 - 30 - 15msec	
Precision	0,2% f.s. ±1 digit (for 2/20Vac, 20/50mAac, 1Aac) 0,5% f.s. ±1 digit (for 200Vac, 500Vac, 5Aac)	0,2% ±1 digit	
Maximum resolution	8000 pti		16000 pti
Input filter	0...20,0 sec + display hysteresis 0...9,9 scale points		
Zero Offset	Settable by user over entire scale range		
Application	Indicator of physical quantities -1999...+9999 (with or without decimal point)		Indicator of physical quantities -1999...+9999 (resolution 1 digit) -19990...+99990 (resolution 10 digit) Configurable decimal point position
Thermocouples : Types	-		
Cold junction compensation	-		
Resistance thermometer : Types	-		
Thermistors : Types	-		
Linear : Types	-		
Potentiomete	-	Input from potentiometer (min 100Ω) powered by instrument 1,2Vdc possible linearization on 32 segments	
Pressure probe Load cells	-	Autorange sensitivity 1,5...3,3mV/V possible linearization on 32 segments	
Alternating sinusoidal : Types (current transformer)	Direct non-isolated input or via transformer in voltage or AC		-
Ranges	0...2/0...20/0...200/0...500Vac 0...20/0...50/0...200mAac, 0...1/0...5Aac		-
Application	Voltmeter, Ammeter		-
Digital communication	-	-	RS485, 1200...19200 baud MODBUS RTU
Digital input Type	Optoisolated passive PNP Isolated 1500V		
Application	Tare zero, reset alarm latches, Hold, Flash		
Outputs	max 3		max 4
Relay : NA	max 5A, 250V resistive load cosΦ = 1		
Application	Alarm units, alarms	Interception, alarm, On/Off Control	
Logic : Type	11V Rout 220Ω (6V/20mA)		24Vdc (10V min /20mA max)
Application	Alarm units, alarms	Interception, alarm, On/Off Control	
Triac : Type	24...240Vac ± 10% 3A max (for mod.40A96)	-	24...240Vac ± 10% 1A max
Application	Alarm units, alarms	Alarm units, alarms	
Analog : Type	4...20mA (R max 150Ω) resolution 12bit, not isolated		0..10V, 4..20mA (Rmax 500Ω) resolution 12bit, not isolated
Application	Retransmission of variable		
Power supply sensor or transmitter	-	1,2Vdc for potentiometer, 5-10Vdc/120mA; 15-24Vdc/50mA	
Power supply	11...27Vac/dc, 100...240Vac/dc; ±10% 50/60Hz		
Faceplate protection level	IP65		
Certifications	UL (40A96)	-	UL

	 40T 72 Alarm Unit	 40T 48 / 40T96 Alarm Unit
Front panel dimensions	72 x 36 mm	48 x 48 mm (1/16 DIN) / 96 x 48 mm (1/8DIN)
Inputs : Number of analog inputs	1	
Sampling time	120 - 60 - 30 - 15msec	
Precision	0,2% ±1 digit	
Maximum resolution	8000 pti	16000 pti
Input filter	0...20,0 sec + display hysteresis 0...9,9 scale points	
Zero Offset	Settable by user over entire scale range	
Application	Indicator of physical quantities -1999...+9999 (with or without decimal point)	
Thermocouples : Types	J, K, T, E, N, S, R, B, LGost, U, G, D, C, custom, with scales in °C or °F (IEC 584)	
Cold junction compensation	Internal, with automatic compensation	
Resistance thermometer : Types	Pt100 DIN43710 (3 fili), Pt100 Japan, custom	
Thermistors : Types	PTC, NTC (1K/25°C), custom	
Linear : Types	0...20mA, 4...20mA, 0...60mV, 0...1V, 0...5V, 0...10V, possible linearization on 32 segments	
Potentiometer	-	(R77 version) Input from potentiometer (min 100Ω) powered by instrument 1,2Vdc
Pressure probe Load cells	-	
Alternating sinusoidal : Types (current transformer)	-	
Ranges	-	
Application	-	
Digital communication	-	RS485, 1200...19200 baud MODBUS RTU, CENCAL GEFRAN
Digital input Type	Optoisolated passive PNP isolated 1500V	
Application	Tare zero, reset alarm latches, Hold, Flash	
Outputs	max 3	max 4
Relay : NA	max 5A, 250V resistive load cosΦ = 1	
Application	Alarm units, alarms, on/off control	
Logic : Type	With 18Vac/dc power supply Rout 560Ω (6V/20mA)	24V (10V min / 20mA max)
Application	Interception, alarm, On/Off Control	
Triac : Type	24...240Vac ± 10% 2A max	
Application	Alarm units, alarms, on/off control	
Analog : Type	4...20mA (R max 60Ω) res. 12bit, not isolated	0...10V, 4...20mA (Rmax = 500Ω) res. 12bit, not isolated
Application	Retransmission of variable	
Power supply sensor or transmitter	18Vdc; 50mA	24Vdc ±10% non-stabilized, 50mA 15Vdc for transmitter, 50mA 1,2V for potentiometer
Power supply	11...27Vdc, 18...27Vac; ±10% 50/60Hz not isolated from sensor	11...27Vac/dc, 100...240Vac/dc; ±10% 50/60Hz
Faceplate protection level	IP65	
Certifications	-	UL

**40TB 72**

Temperature and pressure alarm unit

40F 96

Frequency Indicator

Front panel dimensions	96 x 96 mm (1/4 DIN)	96 x 48 mm (1/8DIN)
Inputs : Number of analog inputs	2	1 mechanical contact, logic or alternating voltage drive
Sampling time	120 - 60 - 30 - 15msec	
Precision	0,2% ±1 digit	
Maximum resolution	16000 pti	
Input filter	0...20,0 sec + display hysteresis 0...9,9 scale points	
Zero Offset	Settable by user over entire scale range	
Application	Indicator of frequencies -1999...+9999 (settable decimal point)	Indicator of frequencies 0...+9999 (automatic or settable decimal point)
Thermocouples : Types	J, K, T, E, N, S, R, B, L, Gost, U, G, D, C, Custom with scale in °C or °F (IEC 584)	-
Cold junction compensation	Internal, with automatic compensation	-
Resistance thermometer : Types	Pt100 DIN43710 (3-wires), Pt100 Japan	-
Thermistors : Types	PTC, NTC (1K/25 °C)	-
Linear : Types	0...20mA, 4...20mA, 0...60mV, 0...1V, 0...5V, 0...10V Ri > 500Ω for voltage signals ≤ 1V Ri > 20KΩ for voltage signals > 1V Ri = 50Ω for current signals Possible linearization on 32 segments	-
Potentiomete	Input from potentiometer (min 100Ω) powered by instrument 1,2Vdc	-
Pressure probe Load cells	Autorange sensitivity 1,5...3,3mV/V	-
Alternating sinusoidal : Types (current transformer)	-	Input from inductive or capacitive proximity encoder NAMUR 2 or 3-wires limit switch. Input in alternating voltage 0,5...500V
Ranges	-	Input frequency ranges ≤ 20KHz
Application	-	Frequency meter with or without automatic scale and decimal point change, input frequency selectable in ranges: 9.999; 99.99; 999.9; 9999
Digital communication	-	Revolution counter or frequency meter with programmable sampling time
Digital input Type	2 inputs from voltage-free contact	Optoisolated passive PNP isolated 1500V
Application	Tare zero, reset alarm latches, Hold, Flash	
Outputs	max 3	
Relay : NA	max 5A, 250V resistive load cosΦ = 1	
Application	Alarm units, alarms	
Logic : Type	-	11V Rout 220Ω(6V/20mA)
Application	-	Alarm units, alarms
Triac : Type	-	24...240V ±10% 3A max.
Application	-	Alarm units, alarms
Analog : Type	2 outputs: 0-10V, 0/4-20mA is.1500V, resolut. 12 bit	4...20mA (R max 150Ω) resolution 12bit non isolated
Application	Configurable	Retransmission of variable
Power supply sensor or transmitter	485, RS232 1200...19200 baud MODBUS RTU	-
Power supply	1,2Vdc for potentiometer > 100Ω ; 5,10Vdc max. 120A for strain gauge 15Vdc max/80mA; 24Vdc max 50mA for transmitter 2-wires	24Vdc; ±10% not stabilized 50mA max 5Vdc/120mA; 12Vdc/50mA max
Faceplate protection level	IP 65	
Certifications	UL	



2400

Fast Indicator



2308

Multichannel Indicator

DIGITAL INDICATOR

Front panel dimensions	96 x 48 mm (1/8DIN)	
Inputs : Number of analog inputs	2 Main, 2 Auxiliaries	8
Sampling time	2 msec (ch1, ch2) 10 msec (ch3, ch4)	900 msec
Precision	0,1% f.s. ±1digit (0,2% f.s. for TC)	0,2% f.s. ±1digit for linear inputs;; 0,5% f.s. ±1 digit for TC, RTD, mVac inputs
Maximum resolution	100000 pti	4000 pti
Input filter	0,0...20,00 sec input reading, 0,0...9,9 sec display	Fisso 120 msec, may be cut out
Zero Offset	Settable by user over entire scale range	-
Application	Indicator of pressure, forces, weight, shift, physical quantities -19999...+99999 settable decimal point	Indicator of temperature and physical quantities -999...3000 settable decimal point
Thermocouples : Types	J, K, R,S, T with scale in °C or °F	
Cold junction compensation	Internal / external	Internal, with automatic compensation
Resistance thermometer : Types	Pt100 2/3-wires, scale in °C or °F	
Thermistors : Types	-	
Linear : Types	Strain-gauge: 5/10Vdc 200mA, 350Ω Potentiometer: ≥100Ω, Ri >10MΩ @ 2,5Vdc DcLinear: 0/4...20mA (Ri = 50Ω) ≤±100mV, Ri > 10MΩ ±1V...±10V, Ri > 2MΩ; Auxiliary input: 0...10V (Ri ≥ 2MΩ); 0/4...20mA (Ri = 50Ω) Possible linearization on 64 segments	0...20mV, 0...50mV, 0...100mV, 0...10V (Ri ±1MΩ); 0/4...20mA (Ri = 5Ω); 100mVac, external dividers provided for signals up to 1500Vac and external shunt for 20Aac and 5Aac
Potentiomete	≥100Ω, Ri > 10MΩ	-
Pressure probe Load cells	Strain-gauge 350Ω sensitivity 1,5...4mV/V	-
Alternating sinusoidal : Types (current transformer)	-	
Ranges	-	
Application	-	
Digital communication	-	
Digital input Type	2, NPN, PNP, optoisolated, configurable function	-
Application	Reset, Zero, Tare, Calibration, Loc/Rem, Hold, Flash	-
Outputs	max 4; can be expanded up to 10 relay or logic outputs with MD82	max 2 relay or logic; can be expanded up to 10 relay or logic outputs with MD81
Relay : NA	5A/250V, contacts, resistive load cosφ= 1	
Application	Alarm units, alarms	
Logic : Type	24Vdc (20mA, max.12V)	24Vdc Rout=47Ω (20mA, max.12V)
Application	Alarm units, alarms	
Triac : Type	-	
Application	-	
Analog : Type	Isolated 1500V, 0/4...20mA, Rmax = 500Ω±10V, resolution 0,03%, configurable via software	-
Application	PV, retransmission, auxiliary inputs, peak	
Power supply sensor or transmitter	Isolated RS485 / RS232 (max 115200 baud), protocol MOD BUS RTU / PROFIBUS DP	Isolated RS485 (1200-9600baud), current loop (1200baud), prof. MODBUS RTU
Power supply	Isolated 1500V, 5, 10Vdc/200mA o 24Vdc, ±5% 100mA	10...15V, 100mA max.
Faceplate protection level	IP65	IP54 (IP65 with protective cover)
Certifications	UL	