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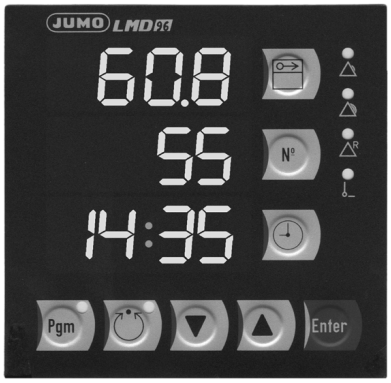
MEASUREMENT AND CONTROL

JUMO LMD96 and LMD400

Channel indicator and monitoring unit

Brief description

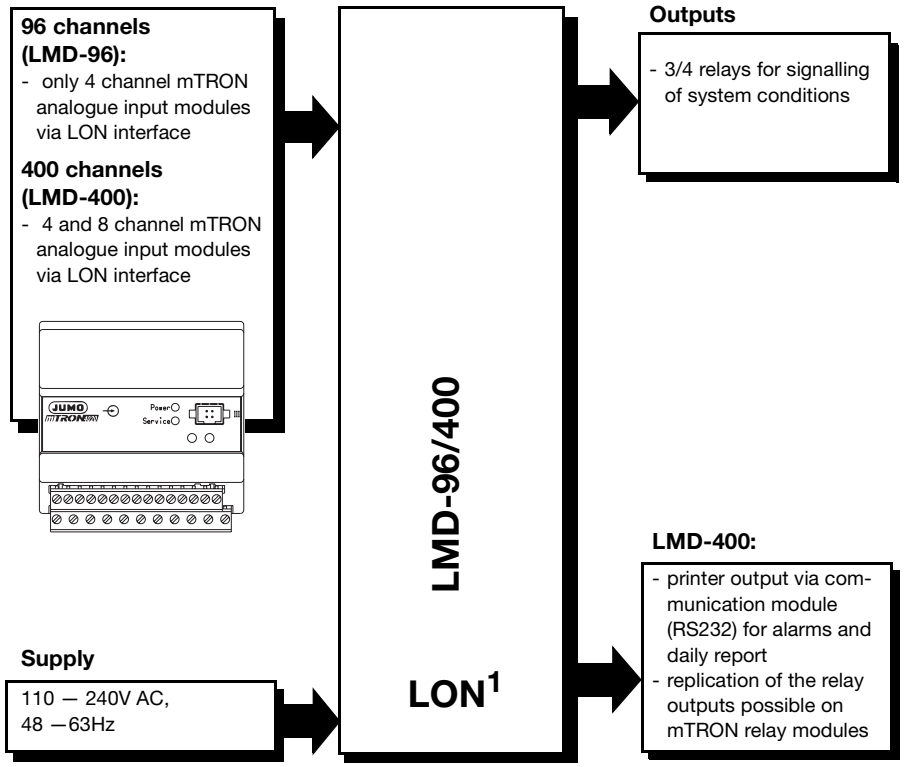
LMD 96 and LMD 400 are compact channel indicators for mTRON analogue input modules. An LMD monitoring system consists of an LMD as display/control unit and mTRON analogue input modules. It is possible to cover up to 400 channels and monitor them against limit values.
The measurements are shown in three red 4-digit, seven-segment displays, 13 mm high. In normal display, the corresponding channel number is indicated next to the measured value of a channel. The 3 or 4 relays and 4 LEDs available in the LMD serve to initiate alarms and signal various system conditions. The cyclic display can be held on any channel. The measurements can then be manually scrolled by operating the up or down keys. The assignment of the analogue input modules to the channel numbers takes place at the installation stage.
The keys and the LED display on the front have IP65 protection to DIN 42 115, are splash proof and resistant to normal household cleaners.



Type 700202/1…

Type 700202/2…

Block structure



1. LON = **L**ocal **O**perating **N**etwork.
Registered trademark of the ECHELON Corporation.

Features

- compact dimensions 96 x 96 cm
- simple operation
- integral real-time clock
- digital outputs in the form of relays with up to 2 normally open and 2 change-over contacts
- LON interface
- simple installation
- IP65 front protection

Standard accessories

- 1 Operating Instructions B 70.0202
- 2 mounting elements
- Combicon plug connectors with screw terminals
- 1 rubber seal for flush panel mounting

11.99/00374363

Ordering details

Basic type	(1)		(2)		(3)		(4)
7002	02	/	.	-	. ..	-	23

(1) Basic type

Type	Code
LMD 96/400	02

(2) Basic type extensions

Channels	Code
96 channels	1
400 channels	2

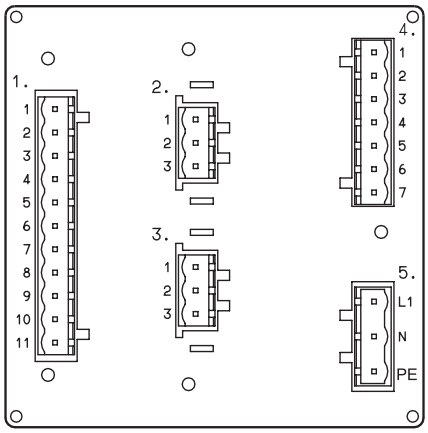
(3) Outputs

Relays	Code
3 relays	03
4 relays	04

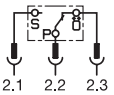
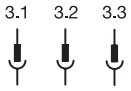
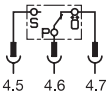
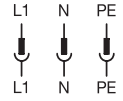
(4) Supply

Rear	Code
110 — 240V AC +10/-15%, 48 — 63Hz	23

Rear view



Connection diagram

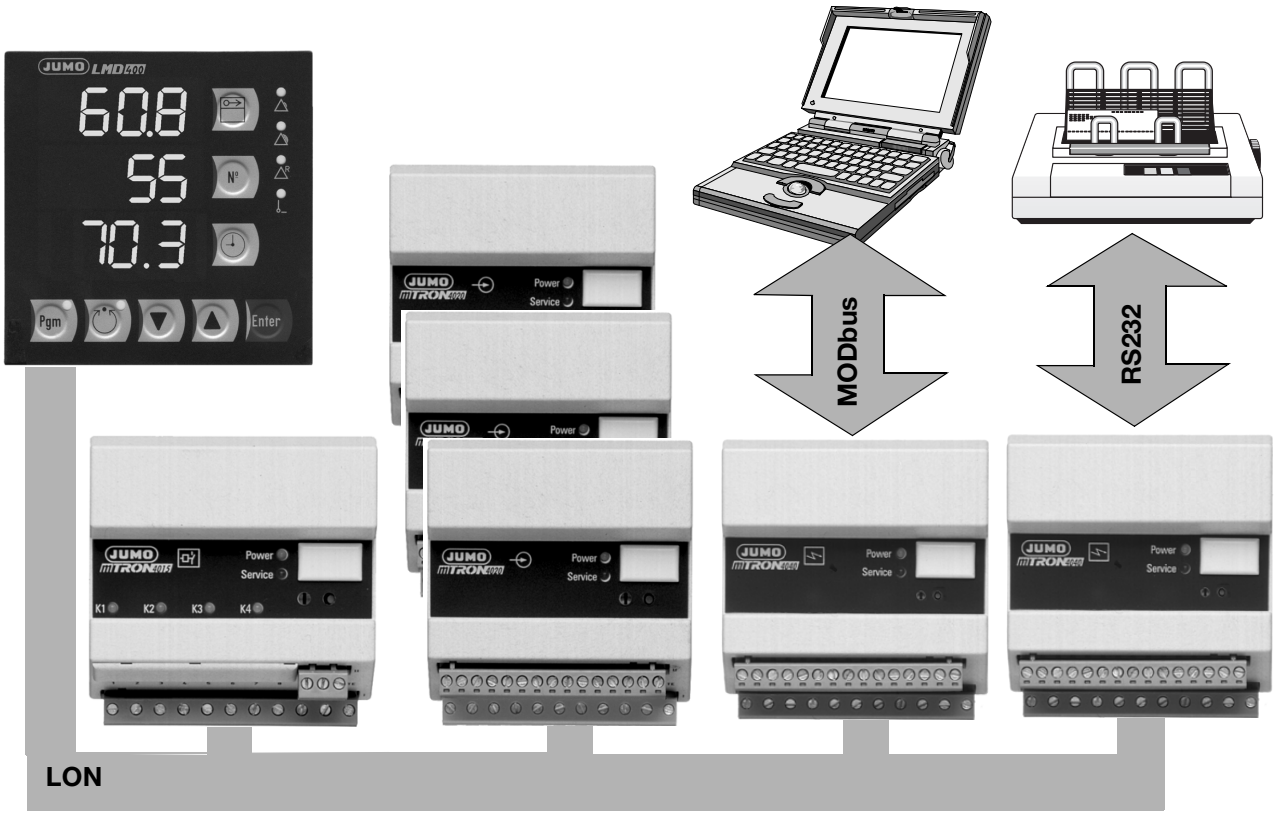
Relay outputs 1 — 4	Terminals, connector 2		Diagram
Output 4	2.1 n.o. (make) 2.2 common 2.3 n.c. (break)	changeover contact	
LON interface	**Terminals, connector 3**		
FTT 10A 78kbaud	3.1 3.2 3.3	technical earth screened twisted pair	
	Terminals, connector 4		
Output 1	4.1 n.o. (make) 4.2 common	**Contact protection**: varistor S14K300 **Contact life:** 10^6 operations at rated load contact rating: 230V 3A (resistive load)	
Output 2	4.3 n.o. (make) 4.4 common		
Output 3	4.5 n.o. (make) 4.6 common 4.7 n.c. (break)		
Supply	**Terminals, connector 5**		
110 — 240V AC, +10/-15%, 48 — 63Hz	L1 N PE	line neutral protective earth	

Technical data

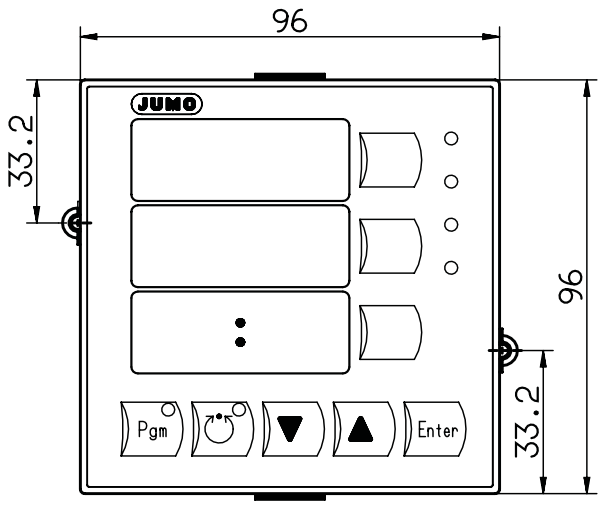
Outputs	relays
Relays 1 — 4	relays with contact protection, contact rating 230V 3A resistive load contact life 10^6 operations at rated load

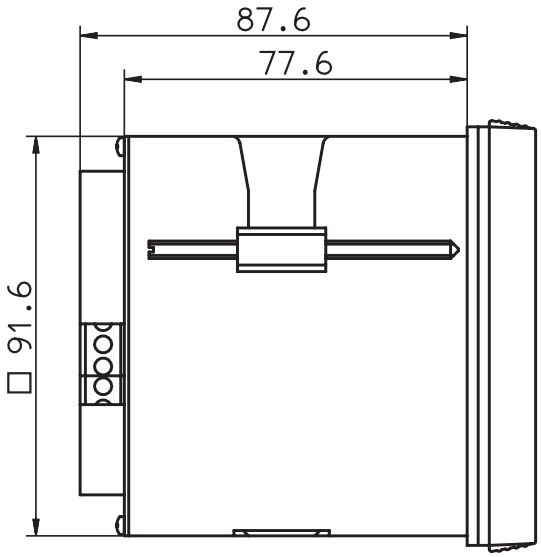
Housing	
Material	Faradex conductive (ABS)
Flammability class	UL 94 V0 self-extinguishing
Protection front/rear	IP65/ IP20 to DIN 42 115 Part 2
Membrane keypad	splash proof and washable with water up to 70°C without pressure, resistant to normal disinfectants, such as toilet cleaners and detergents

Environmental conditions, electrical data	
Operating and ambient temperature	0 — 50°C with air circulation
Permitted storage temperature	-40 to +70°C
Pollution Overvoltage	Degree 2 to EN 61 010 Category 2 to EN 61 010
Relative humidity	≤ 80%, no condensation
Supply	110 — 240V AC +10/-15%, 48 — 63Hz
Power consumption	10VA max.
Response after supply failure	continue
Data backup	configuration and parameter data are stored in an EEPROM
Weight	460g



Dimensions





panel cut-out to DIN 43 700