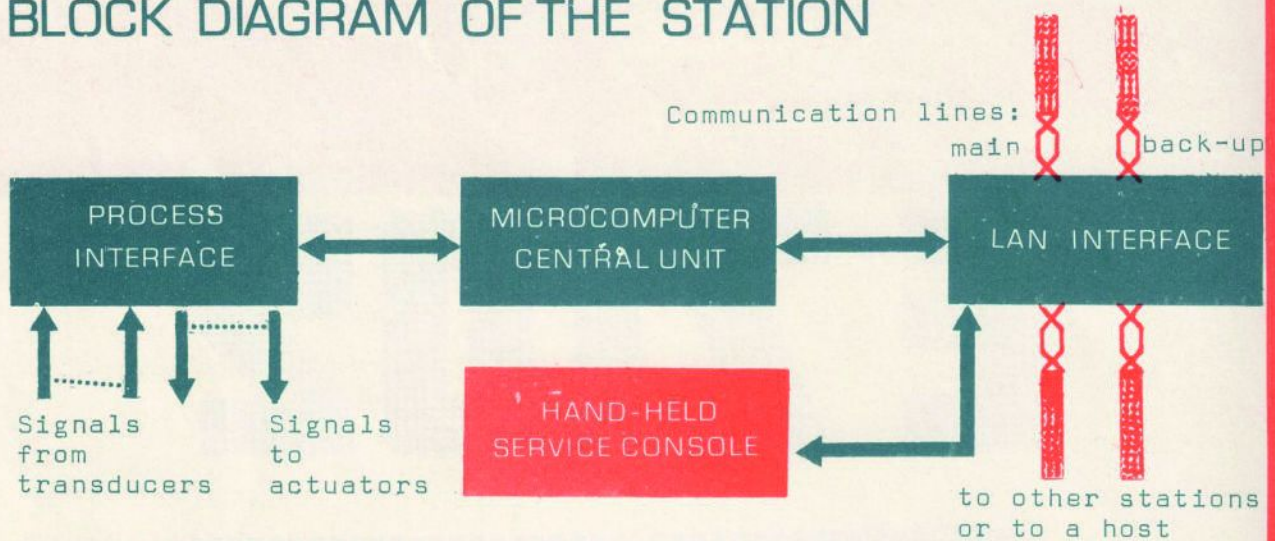


IMPROVED RELIABILITY

- * Power automatic back-up
- * Power failure processing
- * Self-diagnostics of the processor and memory
- * Automatic back-up of communication lines
- * Optron decoupling of signal lines
- * Minimum n° plug-and-socket connectors
- * Unified blocks
- * Rustproof design
- * Efficient cooling system without a fan
- * Possibility for automatic back-up of the entire station
- * Advanced diagnostic messaging system

BLOCK DIAGRAM OF THE STATION



SPECIFICATIONS

CENTRAL UNIT

Microprocessor	
ROM	up to 28 KB
RAM	4 KB
RAM back-up	
power supply	2 batteries, up to 2 months
Timer	10 ms period
Restart modes	1) hot restart - when power failure exceed 5 seconds 2) cold restart



does not

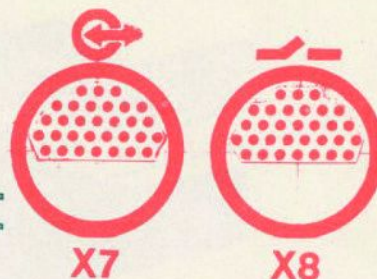
LAN INTERFACE

Network configuration	multipoint bus
Communication line	twisted pair + optional back-up pair
Transfer mode	asynchronous start-stop
Transfer rate	1200 ... 4800 b.p.s.
Station-to-station distance	max 1000 ... 500 m, depends on bit rate
Signals	bipolar, 20 mA
Decoupling	100 V optrons
Auxiliary functions	console connection (socket X3)

PROCESS INTERFACE

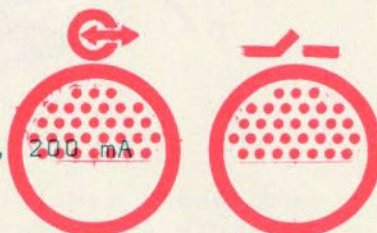
DIGITAL INPUTS

Number of channels	48
Channel scanning period	20/40 ms
Transducer signal source	1) contact 2) 0...+3 V d.c. 3) +8...+12 d.c.



DIGITAL OUTPUTS

Number of channels	32
Channel scanning period	20 ms
Output channel specs	open collector 5 ... 48 V d.c., 200 mA



ANALOG INPUTS

Number of channels	16 unipolar or 8 differential
Channel scanning period	80 ms
Transducer signal source	1) 0...5 V d.c. 2) 0...5 mA d.c. 3) resistance (10 mA supply)
Conversion format	8 bits
Programmable reference voltage	0...5 V d.c.
Conversion precision	1 % for 0...5 V, 2 % for 0...0.5 V

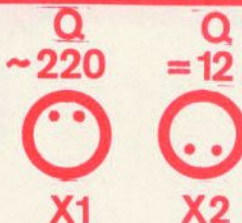


ANALOG OUTPUTS

Number of channels	4
Channel refresh period	40 ms
Conversion format	1) 8 bit to 0...5 V d.c. 2) 8 bit to 0...5 mA d.c.
Auxiliary circuits	* analog hold * overload protection



POWER SUPPLY



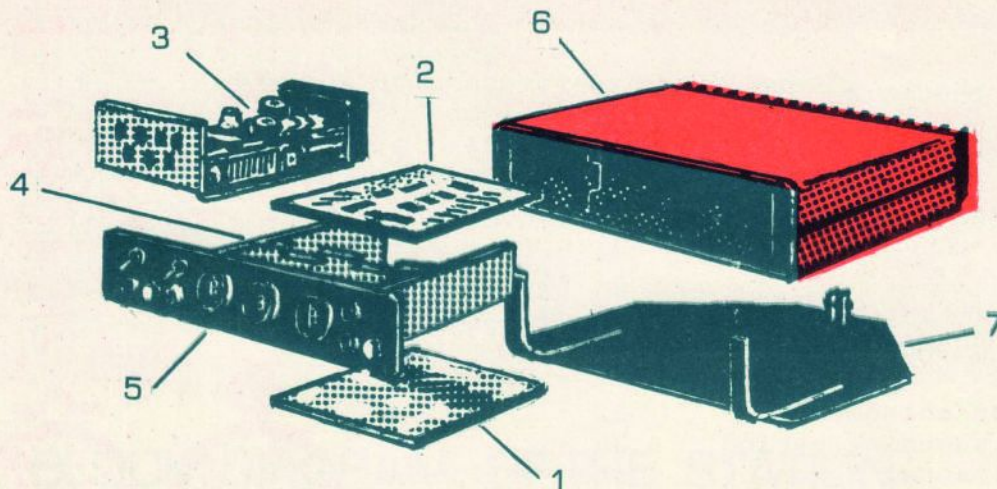
From a.c. mains
220 V +-5 %, 50+-1 Hz,
20 VA

From d.c. source:
12.6 V +-15 %, 20 VA

With both sources connected, the station uses the a.c. mains. When power failure occurs, the station goes automatically over to the 12 V supply.

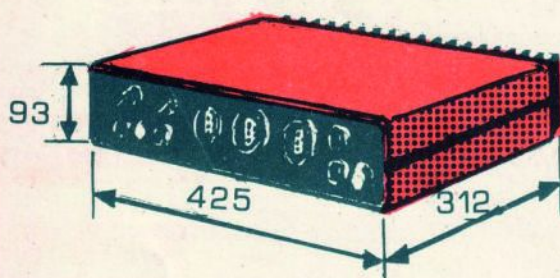


COMPONENTS



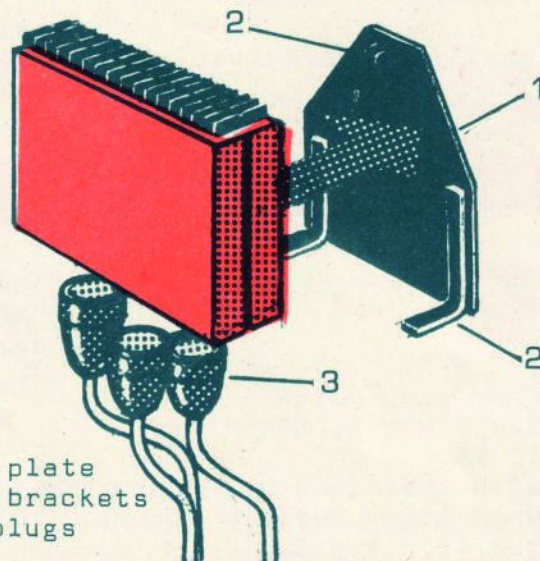
- 1 - processor module: E2 PCB (220 x 237.5 mm); includes converters and data communication interface
- 2 - process interface module: E2 PCB (220 x 237.5 mm)
- 3 - power supply
- 4 - frame with the front panel
- 5 - front panel: power supply switches, fuses, connector sockets for power & signal lines
- 6 - dustproof case
- 7 - mounting holder

DIMENSIONS



425 x 312 x 93 mm
Weight: max 15 kg

ON-THE-WALL MOUNTING



- 1 - holder plate
- 2 - fixing brackets
- 3 - cable plugs



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