



The ADVANCED DIGITAL SYSTEM allows the digital management of analog load cells

Output RS232 and RS422/RS485, MODBUS RTU or ASCII protocols; optional protocols: PROFIBUS, DEVICENET and ETHERNET

Maximum displayed weight: up to 600,000 divisions on the payload

The ADVANCED DIGITAL SYSTEM is made up of two parts: the special junction box and the main instrument

TECHNICAL CHARACTERISTICS A.D. SYSTEM



Power supply:	5 V (shortcircuit protected)
Measuring range:	from -1.0 to +3.5 mV/V
Input sensitivity:	0.02 micronV/division
Linearity:	± 0.01% F.S.
Thermal drift:	± 0.001% F.S./°C
Display:	LCD, alphanumeric
A/D converter:	24 bits (over 16 million of divisions)
A/D conversion speed:	from 6 to 12 updates per second on each cell (depends on the n ° of cells)
Filter:	selectable from 0.1 to 25 Hz
Calibration:	with test certificates, sample table
Keyboard:	4 membrane keys
Power supply:	24 VDC ± 15% - Power consumption 10W
Temperature range:	-10 ÷ +50 °C
Storage temperature:	-20 ÷ +70 °C
Logic outputs:	2 relays (dry contacts NA) -115 Vac/30 Vdc 0.5 A
Logic inputs:	2 opto-isolated 24 VDC PNP
Serial port:	RS232 or RS422/RS485
Transmission distance:	15m (RS232C), 1000m (RS422 and RS485)
Protocol to fieldbus:	PROFIBUS, DEVICENET, ETHERNET (optional)
Standard protocol:	ASCII, MODBUS RTU
Baud rate:	1200÷115200 selectable
Optional analog output:	optically isolated 16-bit. Voltage: 0 to 5/10V (R min10 K Ohm). Current: 0/4 to 20mA (R max 300 Ohm)
Regulatory Compliance:	EN61000-6-2, EN61000-6-3



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