



TECHNICAL DATASHEET

DIGITAL READOUT SPACE 2000 LCD

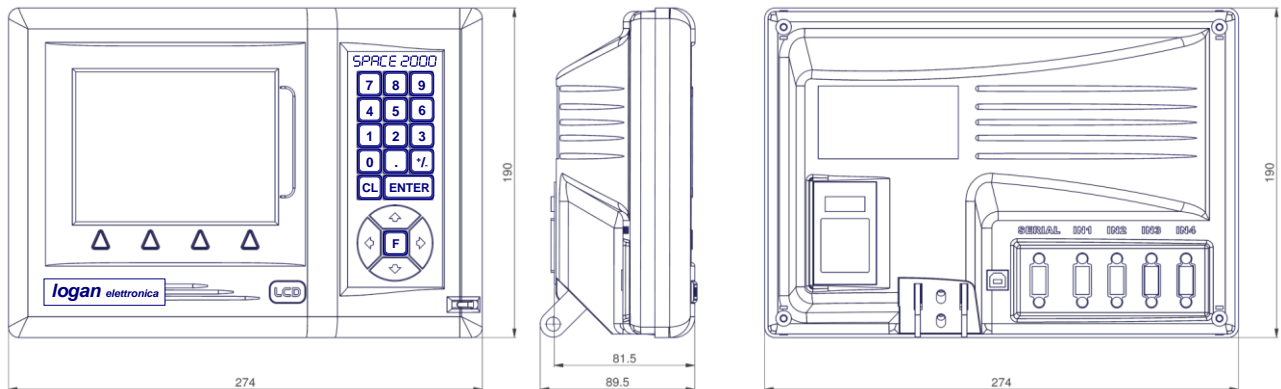
GENERAL FEATURES

- Compact-designed digital readout.
- 5.7" touch-screen color, back-lit LCD TFT panel which allows up to 4 axes to be displayed.
- USB, Touch Probe, CAN Bus and serial RS-232 interfaces.
- Touch-pen provided.
- Resolutions up to 0.1 μm .
- Graphic visualization of function execution.
- On-line HELP.
- Diagnostic of readout and optical scales.
- Reading of coded references (in combination with NCK2 scale).
- Universal software for any kind of machine tool, upgradeable through serial port.
- Program store for 1000 blocks.
- Option: flush-mounted version (on a panel).



MECHANICAL AND ELECTRICAL FEATURES

Available resolutions	1 mm - 500 - 200 - 100 - 50 - 20 - 10 - 5 - 2 - 1 - 0.5 - 0.2 - 0.1 μm $1^\circ - 0.5^\circ - 0.2^\circ - 0.1^\circ - 0.05^\circ - 0.02^\circ - 0.01^\circ - 0.005^\circ - 0.002^\circ - 0.001^\circ$
Power supply	230 Vac $\pm 10\%$ - 50/60 Hz / 110 Vac $\pm 10\%$ - 60 Hz / 24 Vac $\pm 10\%$ - 50/60 Hz
Current consumption	60 mA _{MAX} (230 Vac) / 120 mA _{MAX} (110 Vac) / 500 mA _{MAX} (24 Vac)
Axis display	5.7" color, back-lit LCD TFT
Signal input per axis	2 square waves, phase displacement $90^\circ \pm 5^\circ$ + synchronized index TTL 05 Vdc
Maximum input frequency	300 kHz
Operating temperature	$0^\circ \div 50^\circ\text{C}$
Storage temperature	$-20^\circ \div 70^\circ\text{C}$
Relative humidity	95% (not condensed)
Vibration resistance (EN 60068-2-6)	25 m/s ² [55 \div 2000 Hz]
Protection class (EN 60529)	keyboard IP 67 rear panel IP 42
Weight	≈ 1.12 kg



ORDERING CODE

MODEL	VERSION	INPUT AXES	POWER SCALE	ELECTRONIC ENTRY	CONNECTION	POWER SUPPLY
SPLCD	M	4A	5	N	D	220

SPACE 2000 LCD

M = MILLING
 T = LATHE
 S = SPECIAL

2A = 2 axes
 3A = 3 axes
 4A = 4 axes

5 = 5 Vdc

N = TTL STANDARD

D = delta 9 vie F.

220 = 230 Vac
 110 = 115 Vac

Example COUNTER SPLCDM 4A 5ND220



TECHNICAL DATASHEET

LIST OF FUNCTIONS

F 0 ENTER	DELETING STORED DATA
F 9 ENTER	SETTING PRINTING LINE SPACINGS
F 26 ENTER	CONSTANT STEP
F 28 ENTER	AXIS COUPLING
F 30 ENTER	LINEAR CORRECTION
F 31 ENTER	NON-LINEAR CORRECTION
F 32 ENTER	SCALE FACTOR
F 34 ENTER	RADIUS/DIAMETER CONVERSION
F 36 ENTER	VARIABLE RESOLUTION
F 37 ENTER	SEXAGESIMAL DEGREE READNG
F 38 ENTER	ANGULAR READING MODE
F 44 ENTER	CALCULATING THE TAPER
F 46 ENTER	AUTOMATIC CALCULATING THE TAPER
F 48 ENTER	CALCULATING THREADS
F 50 ENTER	CALCULATING THE WEIGHT OF MATERIALS
F 52 ENTER	CALCULATING THE TIP SPEED
F 54 ENTER	CALCULATING THE ANGULAR SPEED
F 55 ENTER	ENABLING THE AUTOMATIC QUOTA TRANSMISSION
F 64 ENTER	ROUND FLANGE
F 66 ENTER	SPECIAL ROUND FLANGE
F 68 ENTER	INCLINED CONSTANT PITCH
F 69 ENTER	ZERO REF. APPROACHING ALERT
F 70 ENTER	PROGRAMMING THE MEMORY BLOCKS
F 72 ENTER	CIRCUMFERENCE CENTER
F 74 ENTER	MIRROR IMAGE
F 78 ENTER	SCALE VALUE SET
F 80 ENTER	AXIS SPEED DISPLAYING
F 82 ENTER	BUZZER ON/OFF
F 89 ENTER	DEVICE DIAGNOSTIC
F nn Fn	RECALLING OF SPECIAL FUNCTIONS (F1-F8)
ORG	100 ORIGINS OF THE AXES
TOOLS	100 TOOL OFFSETS
HELP	ON-LINE HELP
F 98718 ENTER	SETTING THE TYPE OF SPINDLE ROTATION SPEED
F 98762 ENTER	LANGUAGE SELECTION
CALC	CALCULATOR
	INVERSION OF COUNTING DIRECTION
	SCALE ZERO REFERENCE (REF)
	SELF-TESTING
	ABSOLUTE/INCREMENTAL COUNTING
	RESETTING/PRE-SETTING A VALUE
	MM/INCH CONVERSION
	MIDPOINT CALCULATION

WARNING!!

WHAT TO AVOID

1. All mechanical reworks (cutting, drilling, face milling a.s.o.).
2. All mishandling.
3. Impacts and external stress.
4. Exposure to external magnetic fields.

