AR42

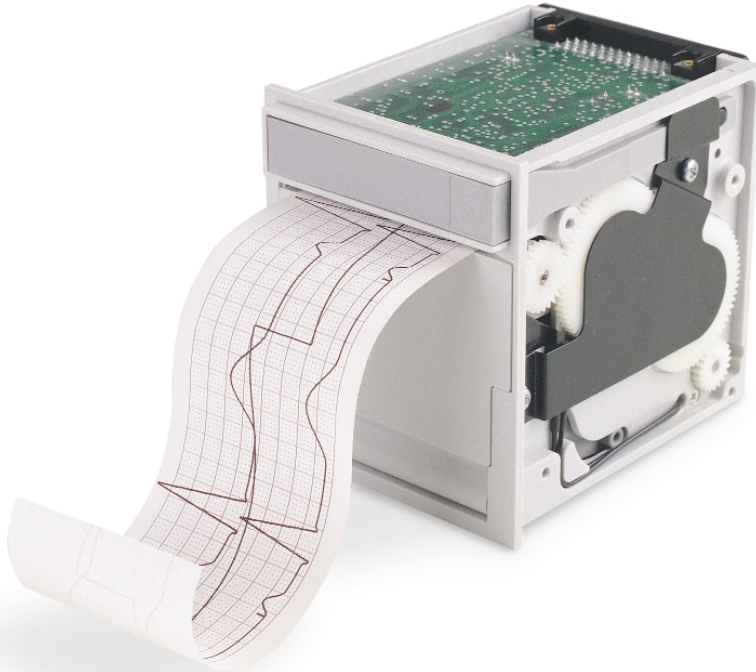## 50 mm Thermal Printer

GSI Lumonics is a leader in developing and producing thermal printers. Our products have been ISO 9001 certified since 1994 and are used widely by leading medical and laboratory instrument manufacturers.

- Half the size, weight, and power requirements of other units
- Environmentally tight construction
- Provide host options, simplify development
- PC-based AR-42 development kit

GSI LUMONICS

GSI Lumonics' *AR-42* OEM printer is small, lightweight, and versatile, with high-resolution and low power demand. Taking less than 9 sq. in. of panel space, it offers advanced software/hardware features that eliminate barriers to instrument design. It is an excellent solution for engineers who want to build in highly reliable, 2-inch, 3-waveform data recording capability, cost-effectively.

The *AR-42* printer is designed to help you significantly reduce development time. You get the flexibility of serial, parallel, advanced parallel, or switch host interfaces. Its front-panel installation is ideal for "just-in-time" assembly. Dedicated GSI Lumonics Applications Support is always available. A development kit is available to simplify and speed integration.

Chosen by leading manufacturers for harsh field environments and for central station applications, the *AR-42* consistently delivers optimal performance, based on innovative, surface-mount circuitry, rugged design, and GSI Lumonics' leadership in the technology of

dependable non-jam paper transport. *AR-42* output quality is exactly what your end-users expect: highly legible, curve smoothed, flexible in format — with infinitely adjustable chart speeds up to 50 mm/sec, and an array of useful output control features.

GSI Lumonics' standard printer models are designed to meet the needs of many OEM users, virtually off the shelf. Frequently, however, instrument manufacturers approach us with special hardware and/or software requirements, and over the years, GSI Lumonics has built a solid reputation for responding effectively. Custom printers, ranging from standard units with only minor configuration changes to major modifications and even complete instrument re-designs are routinely handled. Our Engineering and Production Departments are uniquely organized to react rapidly and efficiently to special needs. Designs, prototypes and even relatively short production runs can be completed with surprising speed and efficiency. If you have a special recorder requirement, contact GSI Lumonics.

MECHANICAL/ELECTRICAL

Paper Type:	Roll
Paper Capacity:	100 feet
Case Color:	Black or Gray
Weight:	0.36 kg (0.8 lbs.)
Overall Dimensions:	67 mm W x 83 mm H x 73 mm D
	(2.62" W x 3.25" H x 3.50" D)
Input Power (max.):	5W
Input Voltage:	Print Supply 10-18 Vdc,
	Logic Supply 5 Vdc

SENSORS & PROTECTION

Sensors:	Door Open, Cue Mark, Paper Out
	Printhead Temperature
Printhead Protection:	Pulse Width, Voltage, Temperature
	Monitoring and WearEqualizer
Static Protection:	Built-In AntiStatic Devices

INTERFACING

	Parallel Centronic, Serial or Switch

OUTPUT

Printing Method:	Direct Thermal
Print Resolution:	Y-axis: 203 dpi (8 dots/mm)
	X-axis: (up to 25 mm/sec)
	800 dpi (32 dots/mm)
	X-axis: (>25 mm/sec, <50 mm/sec)
	400 dpi (16 dots/mm)
	X-axis: (>50 mm/sec)
	200 dpi (8 dots/mm)
Overlapping Traces:	3
Trace Options:	Scaling
Real Time Annotation:	8 Lines (Max)
Grid:	Standard or User-Defined
Background Text:	Available Text Mode
Background Graphics:	Horizontal or Vertical Orientation
Text Mode:	137 Characters
Chart Speed Range:	1 mm/sec - 50 mm/sec
Print Width:	48 mm

Specifications are subject to change. Consult GSI Lumonics for details.

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