DS2400N SUBZERO

DATALOGIC

The New **DS2400N Subzero** laser reader expands Datalogic's portfolio in 1D bar code reading for low temperature environments. DS2400N Subzero model does not comprise on the performance standard set by the DS2400N non-heated model offering greater profitability and productivity in the most challenging refrigerated warehousing and food packaging applications for product traceability.

PERFORMANCE

The DS2400N subzero with fully integrated self-heating technology operates in harsh environments to – 35°C (-31°F) without sacrificing reliability or accuracy for reading low quality bar codes. Using ACB reconstruction technology, the DS2400N Subzero optimizes reading performance for misaligned barcodes, increasing productivity for un-controlled barcode label placement applications. DS2400N Subzero offers powerful reading performance in a compact package with a wide field of view and large depth of field. Connectivity options are available with the CBX100LT, a low temperature version of the popular CBX100 connection box. Low temperature improvements to the BM100 backup and restore module make scanner installation and replacement as easy as a touch of a button. The new BM100 and CBX100LT operate to -35°C, matching the temperature range of the DS2400N Subzero reader.

∎ ID-NET™

DS2400N Subzero is equipped with a built-in ID-NET[™] interface, used for high-speed scanner interconnection. ID-NET[™] allows faster and more efficient data collection without the need for an external multiplexer device. This translates into overall cost reduction versus expensive alternative cabling options as well as simplifying system wiring.

∎ X-PRESS™ HMI

X-PRESS[™] is the intuitive Human Machine Interface designed to improve ease of installation and maintenance. Status and diagnostic information are clearly presented by means of a five LED bar-graph, while the single multi-function key gives immediate access to relevant functions such as Test Mode (for bar code verification), AutoLearn (for barcode self-detection) and Auto-Setup (for scanner self-adjusting). The X-PRESS interface simplifies setup, diagnostics, and replacement removing the need for an external PC.

∎ GENIUS™

The DS2400N scanner can be easily programmed through the intuitive and multi-language Genius™ SW tool. Thanks to the wizard approach and graphic add-ons, the scanner configuration is simple and quick.



HIGHLIGHTS

 Large temperature range -35°C to 45°C

- Low temperature connection and backup & restore modules
- IP65 rugged industrial housing
- Embedded ID-NET™ high speed connectivity to simplify data collection and cluster wiring
- Intuitive X-PRESS™ interface for quick scanner installation and troubleshooting
- Easy setup through multi-language Genius[™] SW tool
- ACB[™] advanced code builder technology improves the read rate on damaged bar codes

APPLICATIONS

Refrigerated Warehousing

- Conveyor sorting
- Picking systems
- Tote Reading
- Print & Apply Verification

Food Packaging & Processing

 Dimension, weigh, scan food packaging

DS2400N SUBZERO

DATALOGIC

TECHNICAL DATA

Dimensions	84 x 68 x 34 mm (3.31 x 2.68
Weight	340 g (12 oz)
Case Material	Aluminium
Maximum Warm Up Time	@ -35°C: 20 minutes
Operating Temperature ¹	-35°C to 45°C (-31°F to 1
Storage Temperature	-35°C to 70°C (-31°F to 15
Humidity	90% non condensing
Vibration Resistance	IEC 68-2-6 test FC 1.5 mm; 10 to 55 Hz; 2
Shock Resistance	IEC 68-2-27 test EA 30 G; 11 ms; 3 sho
Protection Class	IP65
Scanning Speed	600 to 1000 scans/sec (SW prog
Max. Resolution	Up to 0.20 mm (8 mile
Max. Reading Distance	Up to 600 mm (23.6 in) on 0.50 mm (2
Max. Depth of Field	Up to 400 mm (15.7 in) on 0.50 mm (2
Aperture Angle	50 degrees
Readable Codes	Code 2/5, Code 39, Code 93, Code 128, EAN/ Pharmacode, ISBN12
Multilabel Reading	Up to 10 different symbologies during the
Communication Interface	Main port RS232/RS485 SW selectabl Aux. port RS232 up to 115.: ID-NE™ port up to 1 Mł
Device Programming	Genius™ SW configuratior X-PRESS™ human machine ir Serial host mode programming
Operating Modes	'On line', 'Serial On-line', 'Automatic', 'Conti
Input Signal	External Trigger (optocoupled, I IN2 (not optocoupled, NPN
Output Signal	OUT1, OUT2 SW programmable event driven (
Laser Classification	IEC 825-1 Class 2; CDRH C
Laser Control	Security system to turn laser off in case of m
Motor Control	Motor ON/OFF command string and motor s
Power Supply	24 VDC+/-10%
Power Consumption	9.6W
'The operating temperature is	guaranteed under the following conditions:

13°F) 58°F) 2 hours on each axis ocks on each axis grammable) s) 20 mils) bar codes 20 mils) bar codes UPC, EAN 128, Codabar, 28 e same reading phase le up to 115.2 kbps 2 kbps bps n tool interface sequences inuous', 'Test', 'Verifier' NPN/PNP), V only) (optocoupled, NPN/PNP) lass II notor slow down or failure speed SW programmable

x 1.34 in)

MODELS

ORDER NO.	DESCRIPTION
930181415	DS2400N-0205 SHORT RANGE,LIN,NSC,SUBZERO
930181416	DS2400N-0215 SHORT RANGE,RAS,NSC,SUBZERO
930181417	DS2400N-1205 MEDIUM RANGE,LIN,NSC,SUBZER
930181418	DS2400N-1215 MEDIUM RANGE,RAS,NSC,SUBZER
930181419	DS2400N-2205 LONG RANGE,LIN,NSC,SUBZERO
930181420	DS2400N-2215 LONG RANGE,RAS, NSC,SUBZERO

ACCESSORIES

ORDER NO.	DESCRIPTION
93A301069	CBX100LT CONN. BOX COMPACT LOW TEMP.
93ACC1808	BM100 BACKUP MODULE



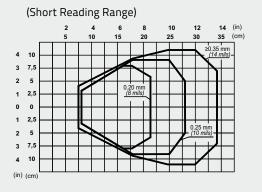
CBX100LT Connection Box



BM100 Backup Module

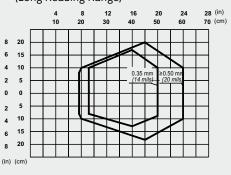
The operating temperature is guaranteed under the following conditions
No direct cold airflow on the scanner
No rapid changes in ambient temperatures

READING DIAGRAMS



(Medium Reading Range) 20 50 (in) 10 (cm) 8 20 6 15 4 10 2 5 0 0 5 2 10 4 15 6 20 8

(Long Reading Range)



Rev. 01, 05/2013



(in) (cm)

The company endeavours to continuously improve and renew its products; for this reason the technical data and contents of this catalogue may undergo variations without prior notice. For correct installation and use, the company can guarantee only the data indicated in the instruction manual supplied with the products. Product and Company names and logos referenced may be either trademarks or registered trademarks of their respective companies. We reserve the right to make modifications and improvements.