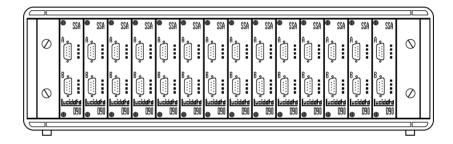
Lucidata D90 User Guide



Lucidata House Selwyn Close Great Shelford CAMBRIDGE CB2 5HA England

tel: +44(0)1223 846100 fax: +44(0)1223 846200

Publication Details

All possible care has been taken in the preparation of this publication, but Lucidata accepts no liability for any inaccuracies that may be found.

Lucidata reserves the right to make changes without notice to both this publication and to the product which it describes.

If you find any errors in this publication or would like to make suggestions for improvement, please write/fax or email the Company at the address below.

Lucidata House Selwyn Close Great Shelford CAMBRIDGE CB2 5HA England

tel: +44(0)1223 846100 fax: +44(0)1223 846200 email: docs@lucidata.co.uk

Diplomat [®] is a registered trademark of Lucidata Limited. © Lucidata Limited 1991-2002

No part of this publication may be reproduced, transmitted, transcribed, stored in any retrieval system or translated into any human or computer language without the prior written permission of Lucidata Limited.

Publication number D90/UG Issue number 4 (12/96)

Revision Details

Section	First Published	Revised	Pages
UG	7/92	12/96	2,4
Appdx	10/93		1,2
DNM	07/92	02/02	All
HVN	7/92	4/94	9
IB8	11/95	12/96	1,5,6,15,16,Appendix 3
		05/98	4,11,13,14,15
IH3	10/97		
TCP	10/97	09/00	All
ASR	09/00		
IB7	02/02		

Quality



FM 13348 BS EN ISO 9001:1994

All Lucidata products are designed, developed and tested under the control of its ISO9000 compliant Quality Management System. The high quality of our products is thus assured. Should any issues on the quality of our products arise please address them to the Quality Manager via any of the addresses given on page ii. This User Guide contains all the necessary information for the proper installation and configuration of the product to ensure the highest level of performance.

Warranty

Lucidata warrants that the products described in this User Guide are free from defects in manufacture and that they meet the specifications and functionality described in this User Guide, Lucidata will replace parts and repair defects in manufacture, on a return to factory basis, for a period of 12 months from the date of our original invoice provided that the product has only been used in the manner and for the purpose described in this User Guide. Lucidata does not warrant that the products described in this User Guide are suitable for any specific application and the purchaser must satisfy him/herself of the suitability of the product for the intended application as best known to him/herself. Lucidata does not accept any contingent liability for any damages whatsoever including direct, indirect, incidental, consequential, loss of business profits or special damages arising from the use of its equipment. Lucidata assumes that if its equipment is used in a business critical or any other essential application, then the system design should incorporate sufficient resilience to ensure that a single failure would not have disproportionate consequences.

Service and Support

Should a Lucidata product appear to fail you should, in the first instance, contact your supplier who will be able to advise you and possibly solve your problem. If you contact Lucidata you should have the product description, serial number, date and place of purchase at hand so that we can efficiently identify your unit. If after assistance from our technical staff it appears that there is a failure you will be given a Returns Number to mark the package returned to the Lucidata factory. Units will be repaired free of charge if they are within warranty. Outside the warranty period repairs will be charged at Lucidata's normal rates. You will be given an estimate of the repair cost prior to work commencement.

Lucidata reserves the right to charge for any investigation it undertakes if the apparent fault is due to improper operation of the unit, or if the unit has been damaged by usage outside the scope of this User Guide.

Additional In-Warranty services may be available in some countries. Contact your local dealer who will be able to advise you.

Post Warranty

The arrangements for Post Warranty servicing vary from country to country. Your local dealer will be able to advise you as to whether you can take out a Post Warranty Maintenance Contract.

Safety

WARNING

This product is for indoor use only This equipment must be earthed

It is recommended that at least one module is present in the rack before switching on the power

PSU meets EN60, 950, IEC950,UL1950,VDE0805, CSA22.2-234/950 CB Certificate No. 1595 Test Report 199447217

General Section- UG1

Title Page
Publication Details
Warranty/Service Information
Contents
About this Guide
About the D90
Technical Data

Customer System Summary

For the contents of this section, refer to the first page of the section appropriate to your model

Module Types

(The following is a list of available modules, however not all these sections will be present in this document)

DNM

VIP

HVN

HV3

IB8

IH3

TCP

ASR

IB7

Appendices

About this Guide General Section

About this Guide

This User Guide is intended to assist in the safe and efficient operation of the Lucidata Diplomat D90 range of products.

The Guide is split into a number of logical sections. The sections included in this manual are detailed on the Contents page but each section contains its own index.

The D90 is a modular product built up from various modules. Some of these modules such as the power supply and back planes are common to all configurations. These are described in the General Section. Other modules (VIP, HVN, DNM etc) are described in detail in the Module Sections.

The *Customer Specification Section* indicates those module types that are present in the D90 equipment that you have purchased and their default configuration.

About the D90 Range

The D90 protocol converter range enables the interconnection of computer equipment from different manufacturers. The D90 range consists of several Eurocard format modules designed to be mounted either in a stand alone table top card frame cabinet or in standard 19" racks. Up to 14 modules can be accommodated within one subrack which is powered from a single phase mains supply.

All connections to computer equipment are made via industry standard connectors on the front of each D90 module. The number and size of connector(s) depends on the type of module. Each module is identified by its hardware type code.

The D90 modules will automatically initialise when switched on. They will also determine whether a Diplomat Network Monitor (DNM) module is present. This module enables the user to select configuration parameters for a whole rack via a keyboard. If there is no DNM module, the modules will be configured to the defaults as specified at time of purchase. The default values are given in the *Customer Specification Section* of this manual.

If a DNM module is present, then the configuration after power up will be that currently stored in the battery-backed RAM (BBRAM) of this module.

After initialisation, the D90 is intended thereafter to handle all line conditions without the need for resetting. No reset button is provided for this reason.

Technical Data General Section

Weight & Dimensions

Height of subrack 132.5mm (3U) 482.6mm (19") Width of subrack Depth of subrack 240mm

Weight of subrack and power supply 7kg(approx)

Electrical Requirements

Power 60W max.

Frequency 47-440Hz single phase

Voltage 90-264 VAC The supply must be earthed

Operating environment

Temperature 0-50°C

0-90% non-condensing Humidity The D90 is designed for indoor use only

External connectors

Power IEC mains plug

Signal Dependant on module type (Refer to relevant pages) The chassis should be clamped to a rack with a good RF ground for maximum RFI protection

External Indicators

8 x LEDs Dependant on module type (Refer to relevant pages)

Configuration

At power up Default or to values in BBRAM (if present) At any time

Terminal profiles and temporary configuration

via individual module menus

Permanent configuration using DNM module (if present)

Signalling Interfaces

Serial CCITT V28, X21, RS232

Optionally V10,V11 and Mil 188C

The use of screened cable grounded to the connector shells is recommended for maximum RFI protection.

LAN IEEE 802.3, 10BaseT and optionally 10Base2

Data rates

Synchronous Determined by external equipment

or by internal clock of 50bps to 64Kbps

50,75,110,135,150,300,600,1200,1800 Asynchronous

> 2400,3600,4800,7200,9600,14.4,19.2,28.8Kbps. (only two speeds can be chosen as defaults

on any particular module.)

Flow Control In Band XON/XOFF

LAN 10 Mbps