

- Print text, measured data, statistics and graphics
- Instrument, machine or process status and fault reports
- QC test and calibration tickets
- Security and building service applications
- Data acquisition and recording
- Versions for 12 VDC, 24 VDC or 85 – 265 VAC power supply
- Paper re-roll option to archive printouts (IPP-AW)
- Add date & time automatically (IPP 144-40 GE)
- Print pre-stored messages and add variable data (IPP 144-40 GE)
- Connect to Siemens PLC with Windows® CE (IPP 144-40 GS)
- Ideal for use with controllers, PCs, PLCs, DPMs, counters, message displays, etc.

Thermal Graphics Printers

IPP 144-40 G

IPP 144-40 GE

IPP 144-40 GS



metrix
electronics

Metrix Electronics Limited
Minchens Court, Minchens Lane,
Bramley, RG26 5BH, U.K.
Tel: +44 (0)845 034 3234, Fax: +44 (0)845 034 3233
E-mail: sales@metrix-electronics.com
Web: www.metrix-electronics.com

GMW **GOSSEN**
Müller & Weigert

IPP 144-40 G printer features

- Quiet maintenance free thermal line printing mechanism, prints alphanumeric text or graphics
- "Document proof" paper has 10 year storage life
- Easy-to-use built-in configuration menu using two front keys
- Prints up to 48 alphanumeric characters per line (Standard-Mode)
- Choice of many language character sets, including IBM international
- Normal or inverse printout options
- Multi-standard opto-isolated RS 232, RS 422, RS 485 or TTY serial interface
- DIN standard housing 144 x 72 mm bezel size
- Hinged front panel for easy paper roll replacement
- Paper-out indication
- Large 16 kB input buffer for rapid data transfer
- Print interval timer adjustable from 10 sec to 24 hours



Enhanced version IPP 144-40 GE features

As IPP 144-40 G version, plus:

- Real-time clock/calendar with easy Summer/Winter change
- Date & time can be added automatically or triggered by control character (serial interface)
- Memory to store up to 15 40-character pre-programmed texts
- Texts can be triggered by the serial interface
- Texts can be include up to 6 reserved spaces to overlay measured variables
- Automatic variable text insert and text block mode options
- Additional bi-directional interface. Also for memory programming in File or Edit modes. Option of RS 232, RS 485, Profi-Bus or USB
- Compatible with Windows® printer drivers
- Out of paper alarm relay

IPP 144-40 GS printer features

Generally similar to IPP 144-40 G, but with special serial interface 1, supports XON/XOFF protocol, to connect to Siemens PLC with Windows® CE

- Special control functions include; horizontal and vertical tabulations, form length, bold and expanded print.
- Supplied with adaptor cable for Siemens-Standard

IPP-AW paper re-roll Accessory

- Mounts beneath any IPP 144-40 G printer
- Allows printout to be re-rolled for archiving
- Automatically controlled and powered by host printer (cable supplied)



Protective cover Accessory

- Dust and moisture protection to IP 64 standards
- Fits over combined printer and re-roll unit fascia
- Plexiglas window with soft rubber surround

Technical Data

Model	IPP 144-40 G Standard version	IPP 144-40 GE Enhanced version	IPP 144-40 GS Siemens version
Print mechanism	576 dots/line (8 dots/mm) thermal line fixed head		
Printing speed	15 lines/s (standard text mode)		
Character height	3 mm (at 48 characters/line) to 18 mm (at 8 characters/line)		
Characters/line	48 (standard mode), 24, 16 or 8		
Service life (printer)	> 10.000.000 dot lines or > 50 km		
Print format	Normal or inverse (right justified) Option: 90-degree right rotation Option: 90-degree left rotation		
Character set	ASCII 8-bit (IBM International), ASCII 7-bit, German, French, Danish, Norwegian, Swedish, Spanish, English, Cyrillic (can be replaced by custom characters)		
Paper	Commercial grade thermal paper roll. PTB tested to DIN "document proof" standards. Storage life up to 10 years at 0 to 60 °C and < 80% RH		
Width/Length/Diameter	80 mm (+0/-1 mm) 14 m typical 4,000 lines approx. / Outer 42 mm max, inner 11.5 mm min		
Menu program	Easy-to-use built-in configuration using two front keys		
Serial interfaces	110, 150, 300, 600, 1200, 2400, 4800, 9600 19200, 38400		
Baud rates	7 or 8 bit, with even, odd, mark, space or not parity		
Data format & parity	16 Kbytes		
Input buffer			
Print trigger characters	<CR> and <LF>	<CR>, <LF> and <FF>	
Addresses	31 selectable addresses	-	
Print interval timer	Settable from 10 sec to 24 h	-	
Serial Interface 1	Optional: RS 232 C (V24), RS 422, RS 485 or TTY (20 mA current loop – active or passive) Adress 00 to 31, all receiver only	RS 232 C or TTY (Current loop): TXD for Siemens PLC with Windows® CE	
Handshake	RTS	RTS, XON/XOFF; rec./send	
Connections	9-pin D-SUB socket	9-pin D-SUB socket	
Serial Interface 2	-	Optional: Bi-directional RS 232 C, RS 485, Profi-BUS or USB 9-pin D-SUB socket or USB socket Type B	-
Connections			
Real-time clock/calendar	-	Accuracy 0.8 s/day	-
Text memory	-	CMOS-RAM with back-up battery Lithium cell, life 10 years approx. 600 characters	-
Battery back-up			
Memory size			
Quantity of texts		15 texts each 40 characters max	
Text call / trigger		Via serial interface	
Variable data overlay		Up to 6 digits anywhere in text	
Text input		Via Interface 2 in Edit or File mode	
Out of paper indication/alarm	LED/-	LED/Relay output 30 VDC, 2A; 50 VAC, 2A	LED/-
Re-roll mechanism connection	4-pin MASCON		
Power supply option	110/230 VAC (85...265 V), 45–65 Hz, 15 W approx. 12 VDC (10...19 V) 20 VA approx. 24 VDC (19...36 V) 18 VA approx.		
Connections	1.5 mm ² screw terminal connections		
Housing	Metal housing with plastic front and rear panels		
Dimensions (WxHxD)	144 x 72 x 159 (167 including connectors) mm		
DIN panel cut-out	138 (+1/-0) x 68 (+0.7/-0) mm, max panel thickness 12 mm		
Panel fixings	Side mounting fixing screws		
Weight	1.3 kg approx.		
Ambient Conditions			
Protection			
Housing	To EN 60529/VDE 0470, class IP 50 (class IP 64 with optional protection cover)		
Terminal	To EN 60529/VDE 0470, class IP 00		
Climatic	Rel. Humidity < 80% till 31 °C (non condensing)		
Storage temp. range	-20 °C to 60 °C		
Operating temp. range	0 °C to 45 °C		
EMC Emission	To EN 55011, class A; EN 55022, class B		
Susceptibility	To EN 61000-4-2, EN 61000-4-3, EN 61000-4-4		
Safety	To EN 61010-1:2001; CAT III >150 V ≤300 V		

IPP-AW paper re-roll mechanism

Operation	Motor with friction clutch. Powered and controlled automatically via host IPP 144-40 G printer
Connections	4-pin Mascon connector. Supplied with 100 mm long 26 AWG 4-way interconnection cable
Paper width/length	80 mm max. / 14 m approx.
Housing	Metal housing with plastic front and rear panels
Dimensions (WxHxD)	144 x 72 x 159 mm
DIN panel cut-cut	138 (+1/-0) x 68 (+0.7/-0) mm, max panel thickness 12 mm
Weight	0.4 kg approx.
Ambient Conditions	As IPP 144-40 G printer specifications

Protective cover

Protection	IP 64 provided IPP 144-40 G and IPP-AW are sealed against panel cut-out
External dimensions (WxHxD)	155 x 155 x 20 mm approx.
Materials	Clear Plexiglas window with soft rubber surround (Santoprene 101-80)

Printer Ordering Information:

Printer Model	Serial Interface 2	Supply Voltage Options (specify)
IPP 144-40 G	-	
IPP 144-40 GE 232	RS 232 C	
IPP 144-40 GE 485	RS 485	
IPP 144-40 GE PB	Profi-BUS	110/230 VAC, 24 VDC or 12 VDC
IPP 144-40 GE USB	USB Type B	
IPP 144-40 GS	-	

Accessory Ordering Information:

Description	Part No.
"Document proof" thermal paper (Pack of 10 rolls)	49234 86910
IPP-AW paper re-roll mechanism	57200 00000
Protective cover to fit printer and IPP-AW combination	27863 15940

Product table

Analogue panel meters
 Measuring transducers
 Digital panel instruments
 Electrical Equipment tester
 Indicator/controllers
 Text display/printer
 Bargraph displays
 Probes
 Accessories



Metrix Electronics Limited

Minchens Court, Minchens Lane,
 Bramley, RG26 5BH, U.K.
 Tel: +44 (0)845 034 3234, Fax: +44 (0)845 034 3233
 E-mail: sales@metrix-electronics.com
 Web: www.metrix-electronics.com



GMW GOSSEN Müller & Weigert

GOSSEN Müller & Weigert

Kleinreuther Weg 88 · D-90408 Nuremberg, Germany
 Phone: +49(0)911 35 02-0 · Fax: +49(0)911 35 02-3 07
 Internet: http://www.g-mw.de · e-mail: info@g-mw.de