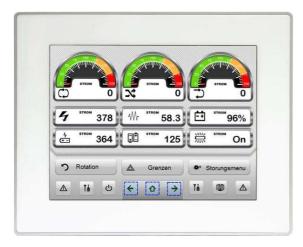


UniOP eTOP310

The UniOP eTOP Series 300 combines state-of-the-art features and performance with an oustanding design. They are the ideal choice for HMI applications including factory and building automation. The eTOP310 features an industry-standard 10.4" TFT display with full vector graphic capabilities. This is the ideal product for high-end HMI applications. Connections include Ethernet and USB.



- 10.4" TFT color display, LED backlight
- 640x480 pixel (VGA) resolution, 64K colors
- Advanced vector graphics
- Resistive touchscreen
- 64 MB user memory
- 10/100 Ethernet interface
- USB interface
- Connection to bus systems using optional plug-in modules
- Slim design. Mounting depth less than 50mm

Highlights

The eTOP Series 300 HMI panels are fully compatible with UniOP Designer 6 software.

- Powerful and intuitive programming with the UniOP Designer 6 software.
- Supports more than 150 communication drivers.
- Built-in Ethernet port for communication with devices, programming the HMI from Designer and retrieving data from computers.
- USB host port for the connection of flash drives. Flash drives can be used for upgrading applications and firmware.
- Optional plug-in modules for fieldbus systems and networks. Compatible with TCM and SCM modules.
- Dual-driver communication capability.
- Vector graphic capabilities including the support of multiple layers and object transparency.
- Data display in numerical, text, bargraph, analog gauges and graphic image formats. Dynamic object properties supported.
- Data acquisition and trend presentation.
 Trend data can be transferred to an host computer using the Ethernet connection.
- Recipe data storage. Recipe data can be transferred to an host computer using the

- Ethernet connection or copied to flash drives via USB connection.
- Multilanguage applications. Far East languages are supported. The number of runtime languages is limited only by the available memory. All text information in the application can be exported to files in Unicode format for easier translation.
- Powerful macro editor to configure touchscreen operation
- Alarms and historical alarm list. Alarm and event information can be printed or transferred to an host computer.
- Eight level password protection.
- Report printing to serial printer. Reports are freely configurable using Designer.
- Ethernet-based UniNet network to share data between UniOP HMIs and to serve data using UniNet OPC Server.



Tech-note

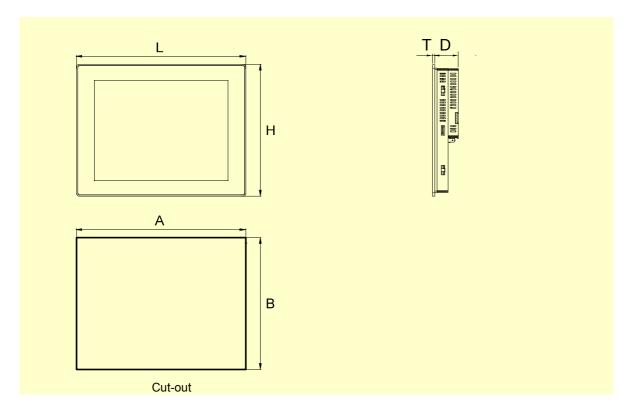
Technical Data

Part				
Résolution 640x480, VGA Active display area 10.4" diagonal 64K Backlight LED Brightness 250 Cd/m² typ. Dimming Yes Memory User memory 64 MB internal Flash Vering the properties of the product of the provided in the properties of the provided in the prov	Display		Hardware Real Time	Yes, with battery back-up
Active display area Colors 64K Backlight LED Brightness 250 Cd/m² typ. Dimming Yes Memory User memory 64 MB internal Flash Memory User LED indicators System LED indicators System LED indicators LSB port Host interface, version 1.1 PC/Printer port RS-232, RS-485, RS-422, software configurable PLC port RS-232, RS-485, RS-422, software configurable PLC port RS-232, RS-485, RS-422, software configurable PLC port RD-100 Miles Functionality Vector graphics Object dynamics (hide/show) TrueType fonts Data acquisition and trends Multilanguage UniNet network Alarms 1024 LED Ratings Power supply voltage Current consumption Fuse Weight Approx 2.1 Kg Ratings Power supply voltage Current consumption Puse Storage Infinite only by available memory TrueType fonts Data acquisition and trends Multilanguage UniNet network Alarms 1024 Alarms 1024 Battings Power supply voltage Current consumption Power supply voltage Current Conditions Open Sea to 10 to 50 °C 0 to 50 °C 0 to 50 °				
Colors Backlight Backlight Backlight Backlight Backlight Backlight Brightness Dimming Yes Memory User memory User memory User LED indicators System LED i	Resolution	640x480, VGA	Screen saver	
Colors Backlight Backlight Backlight Brightness Dimming Yes Source the memory User memory User memory User memory Front panel Touchscreen User LED indicators System LED indicators System LED indicators System LED indicators USB port Host interface, version 1.1 RS-232, RS-485, RS-422, software configurable PLC port RS-232, RS-485, RS-422, software configurable PCP printer port Vest fieldbus and controller modules Functionality Ves Client/Sehow) TrueType fonts Dual adriver capability Video input Dual acquisition and trends Multilanguage Recipe memory UniNet network Alarms LED indicators System LED indicators Analog resistive Analog resistive Analog resistive Benvironmental Conditions Operating temperature Storage temperature Storage temperature Operating and storage Power supply voltage Current consumption Fuse Weight Battery Rechargeable Lithium battery, not user-replaceable 1 0 to 50 °C 20 to +70 °C 5 - 85 % relative humidity, non-condensing PFOrection class PFOrection class PFOrection class PFORECTION CONTROLL CONTROL	Active display area	10.4" diagonal	Buzzer	Yes, audible feedback for
Backlight Brightness 250 Cd/m² typ. Yes Power supply voltage Current consumption Fuse Puse				touchscreen
Ratings Power supply voltage Current consumption Fuse Weight Battery Automatic Automat	Backlight			
Dimming Yes Power supply voltage Current consumption Front panel Touchscreen User LED indicators System LED indicators Analog resistive 1			Ratings	
Memory G4 MB internal Flash Weight Battery Approx 2.1 Kg Rechargeable Lithium battery, not user-replaceable				24 \/dc (18 to 30 \/dc)
User memory 64 MB internal Flash Weight Approx 2.1 Kg Rechargeable Lithium battery, not user-replaceable	Diffilling	165		0.9 A at 24 \(da(max)
Ser memory G4 MB internal Flash Battery Approx 2.1 Kg Rechargeable Lithium battery, not user-replaceable	N4		•	
Front panel Touchscreen User LED indicators System LED indicators System LED indicators Interfaces Ethernet port USB port PC/Printer port PLC port PS-232, RS-485, RS-422, software configurable PLC port Ps, fieldbus and controller modules Functionality Vector graphics Object dynamics (hide/show) TrueType fonts Dual driver capability Video input Data acquisition and trends Multilanguage Multilanguage Wesh push push push push push push push pu				1 10.00 11.00.00
Front panel Analog resistive Incompany of the part of th	User memory	64 MB internal Flash		Approx 2.1 Kg
Touchscreen User LED indicators System LED indicators System LED indicators Interfaces Ethernet port USB port PC/Printer port PC/Printer port Aux port Functionality Vector graphics Object dynamics (Interfaces Object dynamics (Interface) Dimensions Functionality Vector graphics Dual driver capability Video input Data acquisition and trends Multilanguage Multilanguage Yes, number of run-time languages limited only by available memory Ves, Elash memory storage limited only by available memory UniNet network Alarms Interfaces Storage temperature Operating and storage Storage temperature Operating and storage Noperating and storage Numidity Protection class Dimensions Faceplate LxH Cutout AxB Depth D+T Approvals CE Emission UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A, B, C and D. Groups A, B, C and D.			Battery	Rechargeable Lithium battery,
User LED indicators System LED indicators System LED indicators Interfaces Ethernet port USB port PC/Printer port PS-232, RS-485, RS-422, software configurable PLC port Aux port Permetionality Vector graphics Object dynamics (hide/show) TrueType fonts Dual driver capability Video input Data acquisition and trends Multilanguage Multilanguage Windicators System LED indicators 4 Interfaces Storage temperature Operating and storage humidity Protection class Prote	Front panel			not user-replaceable
System LED indicators Interfaces Ethernet port USB port PC/Printer port RS-232, RS-485, RS-422, software configurable PLC port Aux port Functionality Vector graphics Object dynamics (hide/show) TrueType fonts Dual driver capability Video input Data acquisition and trends Multilanguage Windles Yes, number of run-time languages limited only by available memory UniNet network Alarms Alarms Alarms Alizina Indivo to 10/100 Mbit Operating temperature Storage tempe	Touchscreen	Analog resistive		
System LED indicators Interfaces Ethernet port USB port PC/Printer port PC/Printer port Aux port Functionality Vector graphics Object dynamics (hide/show) TrueType fonts Dual driver capability Video input Dual driver capability Video input USB qualitanguage Multilanguage Multilanguage Ves, Flash memory Ves, Flash memory storage limited only by available memory UniNet network Alarms Alarms Alarms Alizins Interfaces Storage temperature Storage temperature Storage temperature Operating and storage Storage temperature Storage temperature Operating temperature Storage temperature -20 to +70 °C -8t 5 % relative humidity, non-condensing PF65 (front panel) IP20 (rear) Dimensions Faceplate LxH Cutout AxB Depth D+T 42mm+4mm Approvals CE Emission EN 61000-6-4 Immunity EN 61000-6-2 For installation in industrial environments UL UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D. Ves Groups A,B,C and D.	User LED indicators	1	Environmental	
Interfaces Ethernet port USB port PC/Printer port PLC port PLC port Aux port Performables Performables Performables Performables Performables Punctionality Vector graphics Object dynamics (hide/show) TrueType fonts Dual driver capability Video input Data acquisition and trends Multilanguage Multilanguage Proceedings Multilanguage UniNet network Alarms Alarms Alarms Alarms Alarms Alore Interfaces Storage temperature Operating and storage Inmidity Non-condensing Protection class IP65 (front panel) IP20 (rear) IP20 (rear) Park 287x232 mm Cutout AxB Depth D+T Approvals CE Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D. Faceplate LxH Cutout AxB Depth D+T UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D.		4	Conditions	
Interfaces Ethernet port 10/100 Mbit USB port Host interface, version 1.1 PC/Printer port RS-232, RS-485, RS-422, software configurable PLC port RS-232, RS-485, RS-422, software configurable Aux port Yes, fieldbus and controller modules Functionality Ves, fieldbus and controller modules Vector graphics Yes Object dynamics (hide/show) Yes TrueType fonts Dual driver capability Video input Data acquisition and trends Yes, number of run-time languages limited only by available memory Ves, number of run-time languages limited only by available memory UL UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D. Recipe memory Client/Server Client/Server Client/Server Alarms 1024	-,		Operating temperature	0 to 50 °C
Ethernet port USB port Host interface, version 1.1 PC/Printer port Software configurable PLC port RS-232, RS-485, RS-422, software configurable PLC port Aux port Pcunctionality Vector graphics Object dynamics (hide/show) TrueType fonts Dual driver capability Video input Data acquisition and trends Multilanguage Multilanguage Ves, number of run-time languages limited only by available memory UniNet network Alarms Locate Locate Locate Host interface, version 1.1 Ros-232, RS-485, RS-422, software configurable Protection class Protection class Protection class IP65 (front panel) IP20 (rear) Dimensions Faceplate LxH Cutout AxB Depth D+T Approvals CE Emission EN 61000-6-4 Immunity DUL UL UL 508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D. Wester part of the following protection class IP65 (front panel) IP20 (rear) Dimensions Faceplate LxH Cutout AxB Depth D+T Approvals CE Emission EN 61000-6-2 for installation in industrial environments UL UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D. Wester part of the following protection class IP65 (front panel) IP20 (rear) Dimensions Faceplate LxH Cutout AxB Depth D+T Approvals CE Emission EN 61000-6-2 for installation in industrial environments UL UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D.	Interfaces			
USB port PC/Printer port RS-232, RS-485, RS-422, software configurable PLC port RS-232, RS-485, RS-422, software configurable PLC port Aux port Percent and provided and provided according to the following and provided according to the following and provided according to the following accord		10/100 Mbit		
PC/Printer port RS-232, RS-485, RS-422, software configurable RS-232, RS-485, RS-422, software configurable Aux port Aux port Functionality Vector graphics Object dynamics (hide/show) TrueType fonts Dual driver capability Video input Data acquisition and trends Multilanguage Multilanguage Multilanguage Yes, fieldbus and controller modules Protection class IP65 (front panel) IP20 (rear) Dimensions Faceplate LxH Cutout AxB Depth D+T 42mm+4mm Approvals CE Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments rends Multilanguage Imited only by available memory Yes, Flash memory storage limited only by available memory UniNet network Alarms I024 Event list IP65 (front panel) IP20 (rear) Protection class IP65 (front panel) IP20 (rear) Protection class IP65 (front panel) IP20 (rear) Protection class IP65 (front panel) IP20 (rear) Protection class IP65 (front panel) IP20 (rear) Protection class IP65 (front panel) IP20 (rear) Protection class IP65 (front panel) IP20 (rear) Protection class IP20 (rear) Protection class IP65 (front panel) IP20 (reat) Protection class IP65 (front panel) IP20 (reat) Protection class IP65 (front panel) IP20 (reat) Potation class IP65 (front panel) I				
PLC port RS-232, RS-485, RS-422, software configurable RS-232, RS-485, RS-422, software configurable Yes, fieldbus and controller modules Functionality Vector graphics Object dynamics (hide/show) TrueType fonts Dual driver capability Video input Data acquisition and trends Multilanguage Yes, number of run-time languages limited only by available memory Recipe memory Yes. Flash memory storage limited only by available memory UniNet network Alarms UniNet network Alarms Software configurable RS-232, RS-485, RS-422, software configurable Pess As Porovals Dimensions Faceplate LxH Cutout AxB 276x221 mm Depth D+T 42mm+4mm Approvals CE Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D. Groups A,B,C and D.				
PLC port RS-232, RS-485, RS-422, software configurable Yes, fieldbus and controller modules Faceplate LxH Cutout AxB Depth D+T Punctionality Vector graphics Object dynamics (hide/show) TrueType fonts Dual driver capability Video input Data acquisition and trends Multilanguage Multilanguage Yes, number of run-time languages limited only by available memory Ves. Flash memory storage limited only by available memory UniNet network Alarms 1024 Event list Dimensions Faceplate LxH Cutout AxB Depth D+T 42mm+4mm Approvals CE Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D.	PC/Printer port		Protection class	
Aux port Pes, fieldbus and controller modules Faceplate LxH Cutout AxB Depth D+T 42mm+4mm Functionality Vector graphics Object dynamics (hide/show) TrueType fonts Dual driver capability Video input Data acquisition and trends Multilanguage Multilanguage Multilanguage Ves, number of run-time languages limited only by available memory Ves. Flash memory storage limited only by available memory UniNet network Alarms 1024 Event list Dimensions Faceplate LxH Cutout AxB Papprovals CE Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D.				IP20 (rear)
Aux port Yes, fieldbus and controller modules Faceplate LxH Cutout AxB Depth D+T Punctionality Vector graphics Object dynamics (hide/show) TrueType fonts Dual driver capability Video input Data acquisition and trends Multilanguage Multilanguage Yes, number of run-time languages limited only by available memory Vies, Flash memory storage limited only by available memory UniNet network Alarms 1024 Event list Paceplate LxH Cutout AxB Depth D+T 42mm+4mm Approvals CE Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D.	PLC port			
Functionality Vector graphics Yes Object dynamics (hide/show) TrueType fonts Dual driver capability Video input No Data acquisition and trends Multilanguage Yes, number of run-time languages limited only by available memory Ves. Flash memory storage limited only by available memory UniNet network Alarms 1024 Event list Approvals CE Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D.		software configurable	Dimensions	
Functionality Vector graphics Yes Object dynamics (hide/show) TrueType fonts Dual driver capability Video input No Data acquisition and trends Multilanguage Multilanguage Recipe memory Ves. Flash memory storage limited only by available memory UniNet network Alarms 1024 Event list Ves CE Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D.	Aux port	Yes, fieldbus and controller	Faceplate LxH	287x232 mm
Functionality Vector graphics Object dynamics (hide/show) TrueType fonts Dual driver capability Video input Data acquisition and trends Multilanguage Multilanguage Ves, number of run-time languages limited only by available memory Ves. Flash memory storage limited only by available memory UniNet network Alarms 1024 Event list Ves Approvals CE Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments UL UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D.	•	modules		276x221 mm
Functionality Vector graphics Object dynamics (hide/show) TrueType fonts Dual driver capability Ves Video input Data acquisition and trends Multilanguage Multilanguage Recipe memory Ves. Flash memory storage limited only by available memory UniNet network Alarms Functionality Ves Approvals CE Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D. Ves Client/Server Alarms 1024 Event list				
Vector graphics Object dynamics (hide/show) TrueType fonts Dual driver capability Video input Data acquisition and trends Multilanguage Multilanguage Recipe memory Ves. Flash memory storage limited only by available memory UniNet network Alarms 1024 Event list Approvals CE Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D.	Functionality		20ptil 2 - 1	12111111
Object dynamics (hide/show) TrueType fonts Yes Dual driver capability Yes Video input No Data acquisition and trends Multilanguage Yes, number of run-time languages limited only by available memory Recipe memory Yes. Flash memory storage limited only by available memory UniNet network Alarms 1024 Event list Yes Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D.		Ves	Annroyale	
(hide/show) TrueType fonts Yes Dual driver capability Yes Video input No Data acquisition and trends Multilanguage Yes, number of run-time languages limited only by available memory Recipe memory Yes. Flash memory storage limited only by available memory UniNet network Alarms 1024 Event list Yes EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D.				Emission
TrueType fonts Yes Dual driver capability Yes Video input No Data acquisition and trends Multilanguage Yes, number of run-time languages limited only by available memory Recipe memory Yes. Flash memory storage limited only by available memory UniNet network Alarms 1024 Event list Immunity EN 61000-6-2 for installation in industrial environments UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D.		165	CE	
Dual driver capability Video input Data acquisition and trends Multilanguage Multilanguage Yes, number of run-time languages limited only by available memory Yes. Flash memory storage limited only by available memory UniNet network Alarms 1024 Event list EN 61000-6-2 for installation in industrial environments UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D.		V.		
Video input Data acquisition and trends Multilanguage Yes, number of run-time languages limited only by available memory Yes. Flash memory storage limited only by available memory UniNet network Alarms Loc. Class I, Division 2, Groups A,B,C and D. For installation in industrial environments UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D. Ves. Flash memory storage limited only by available memory UniNet network Alarms Loc. Class I, Division 2, Groups A,B,C and D.				
Data acquisition and trends Multilanguage Yes, number of run-time languages limited only by available memory Recipe memory Ves. Flash memory storage limited only by available memory UniNet network Alarms 1024 Event list Alarms Luc. Class I, Division 2, Groups A,B,C and D. Flash memory storage limited only by available memory UniNet network Alarms 1024 Event list				
trends Multilanguage Yes, number of run-time languages limited only by available memory Recipe memory Yes. Flash memory storage limited only by available memory UniNet network Alarms 1024 Event list Luc. Class I, Division 2, Groups A,B,C and D. Value only by available memory UniNet network Alarms 1024				for installation in industrial
Multilanguage Yes, number of run-time languages limited only by available memory Recipe memory Yes. Flash memory storage limited only by available memory UniNet network Alarms 1024 Event list UL UL508 Listed Haz. Loc. Class I, Division 2, Groups A,B,C and D.		Yes		environments
languages limited only by available memory Recipe memory Yes. Flash memory storage limited only by available memory UniNet network Alarms 1024 Event list Loc. Class I, Division 2, Groups A,B,C and D.				
languages limited only by available memory Recipe memory Yes. Flash memory storage limited only by available memory UniNet network Alarms 1024 Event list Loc. Class I, Division 2, Groups A,B,C and D.	Multilanguage	Yes, number of run-time	UL	UL508 Listed
available memory Recipe memory Yes. Flash memory storage limited only by available memory UniNet network Alarms 1024 Event list Groups A,B,C and D. Groups A,B,C and D.	5 5		-	
Recipe memory Yes. Flash memory storage limited only by available memory UniNet network Alarms 1024 Event list 1024				
limited only by available memory UniNet network Alarms 1024 Event list 1024	Recipe memory			Groups 71,B,O and B.
memory UniNet network Alarms 1024 Event list 1024	recipe memory			
UniNet network Alarms 1024 Event list 1024		= =		
Alarms 1024 Event list 1024	LimiNint materials			
Event list 1024				
Password Yes Yes				
	Password	Yes		

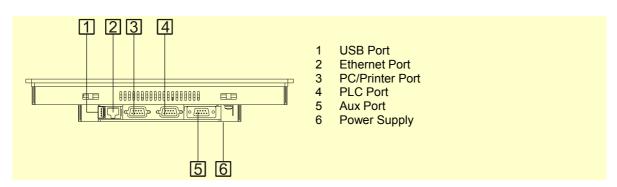


Tech-note

Dimensions



Connections





Tech-note

Ordering Information				
Model	Part Number	Description		
eTOP310	ETOP310U101	10.4" TFT color touchscreen with Ethernet and USB interfaces. White front panel.		
	ETOP310U201	10.4" TFT color touchscreen with Ethernet and USB interfaces. Silver		

front panel.

ETOP310U301 front panel.

10.4" TFT color touchscreen with Ethernet and USB interfaces. Black front panel.

PROT-14 Disposable protection foil for 10.4" eTOP touch panels (10 pieces).

PROT-20 Disposable protection foil for 10.4" eTOP touch panels (10 pieces). UV resistant.

ptn0317

Ver. 1.5

Copyright © 2009-2014 Exor International S.p.A. - Verona, Italy

Subject to change without notice.

The information contained in this document is provided for informational purposes only. While efforts were made to verify the accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind.

www.uniop.com

ptn0317-5.doc - 21.02.2014 UniOP eTOP310

4