

INSTALLATION GUIDE

DI 005 EN G

(All file available on ALMA website)

GPL-Tronique

Described in EC-type examination certificate Nb: LNE-13621

L				
K				
J				
I				
H				
G	28-05-13	Coulours cable C6 following DIN47100: PK and RD/BL were OR and WH/BL (f.15,16,17) (f.20,21,22)	EG	NC
F	15-04-13	Modification on the french version only	EG	EG
E	09-07-12	Modif.: control box wiring (f.21,22) and details IE/RC D-sub (Tx-Rx) (f.16)	EG	XS
D	02-05-12	Added: GPL-Tronique CD version (Control box and remote control RCT4)	EG	XS
C	22-12-11	Added: regulatory label, second way of distribution, mounting T° sensor and pressure gauge	EG	XS
B	-	-	-	-
A	04-03-11	Creation - Cancels and replaces D60-129 rev C	EG	XS
Rev.	Date	Designation	Wrt.	Chk

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Unit of measure:

Length: millimeter (mm)

Angle: degree (°)

Temperature: degree Celsius (°C)

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INSTALLATION GUIDE DI 005 EN
GPL-Tronique
FLYLEAF

Folio
01

Nber of Folios
24

LIST OF FOLIOS

Nb	DESIGNATION	Rev folios
1	Flyleaf	G
2	List of folios	G
3	Overall plan and parts list (base version)	C
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5	Measuring system identification plate kit	B
6	Mounting temp. sensor and pressure gauge on GPL-BALC line	B
7	Converter 24Vdc/24Vdc 2.1A 50W	B
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9	Electrical diagram (base version)	C
10	Electrical wiring MICROCOMPT+ (base version)	C
11	Electrical wiring printer converter (base version)	A
12	GPL-Tronique CD	A
13	Electrical diagram (CD version)	A
14	Connection of the equipments with control box (CD version)	A
15	Electrical wiring MICROCOMPT+ (CD version)	B
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17	Electrical wiring control box "COFFRET DE PILOTAGE" (CD version)	B
18	Remote control RCT4	A
19	Connection of the equipments with the control box (RCT4)	A
20	Electrical wiring MICROCOMPT+ (RCT4)	B
21	Assignments of the cables (Cds and serial links) (RCT4)	C
22	Electrical wiring control box "COFFRET DE PILOTAGE" (RCT4)	C
23	Electrical wiring remote control receiver (RCT4)	A
24	Pneumatic coupling control box "COFFRET DE PILOTAGE"	A

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LIST OF FOLIOS

Rev.folio

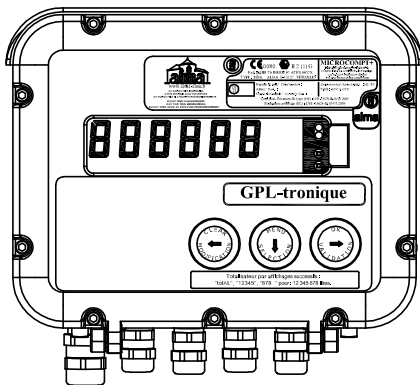
G

Folio

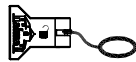
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EQUIPMENTS INCLUDED IN THE MEASURING SYSTEM DELIVERED BY ALMA

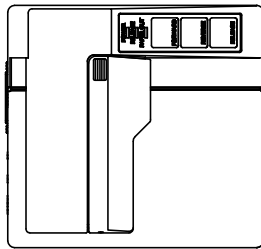
① MICROCOMPT+ GPL-Tronique INDICATOR



(Supervisor key)

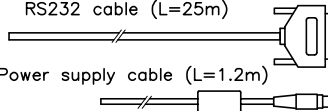


④ PRINTER

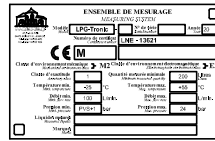


RS232 cable (L=25m)

Power supply cable (L=1.2m)

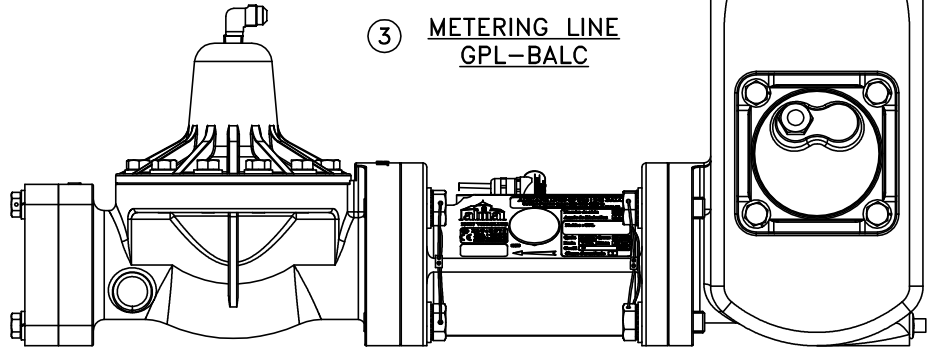


② MEASURING SYSTEM IDENTIFICATION PLATE KIT (with regulatory label)

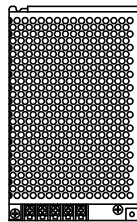


(Regulatory label)

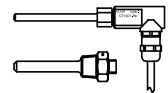
③ METERING LINE GPL-BALC



⑤ CONVERTER 24Vdc/24Vdc 2.1A 50W (not delivered if CD version)



⑥ TEMPERATURE SENSOR PT100 CT1001-Pe (Option)



PARTS LIST

Rep.	Qty	Designation	Option	Supplier
1	1	MICROCOMPT+ GPL-Tronique INDICATOR	-	ALMA
2	1	MEASURING SYSTEM IDENTIFICATION PLATE KIT + REGULATORY LABEL	-	
3	1	METERING LINE GPL-BALC	-	
4	1	PRINTER (with power supply and RS232 cables)	-	
5	1	CONVERTER 24Vdc/24Vdc 2.1A 50W	-	
6	1	TEMPERATURE SENSOR PT100 CT1001-Pe (with thermowell)	•	

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GPL-Tronique

OVERALL PLAN AND PARTS LIST (base version)

Rev.folio

C

Folio

03

MECHANICAL PART

See the document DI 001 EN for general recommendations

(All file available on ALMA website)

PRESENTATION DRAWINGS OF EQUIPMENTS DELIVERED

(All files available on ALMA website)

Presentation drawing Nb	Designation
PPV087	MICROCOMPT+ GPL-Tronique INDICATOR
PPN041	METERING LINE GPL-BALC
PPN901	PRINTER TM-U295
PPV042	TEMPERATURE SENSOR PT100 CT1001-Pe (with thermowell)
PPN045	CONTROL BOX
PPN047	REMOTE CONTROL RCT4

– For other equipments see the mechanical part.

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GPL-Tronique

MECHANICAL PART

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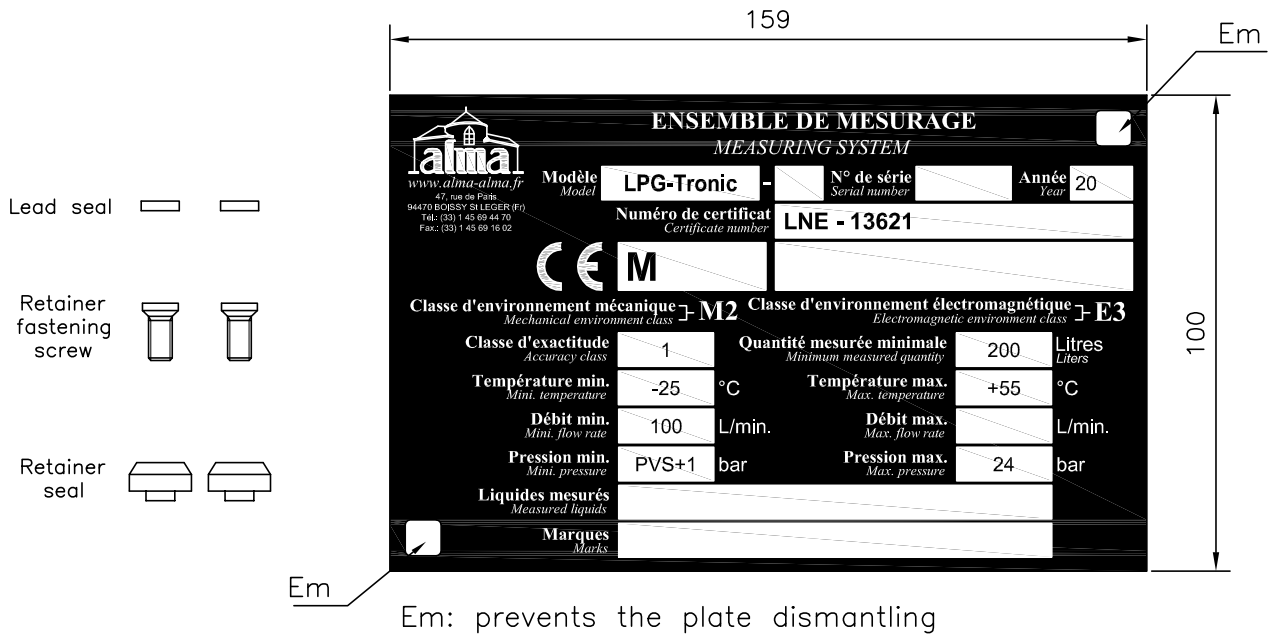
B

Folio

04

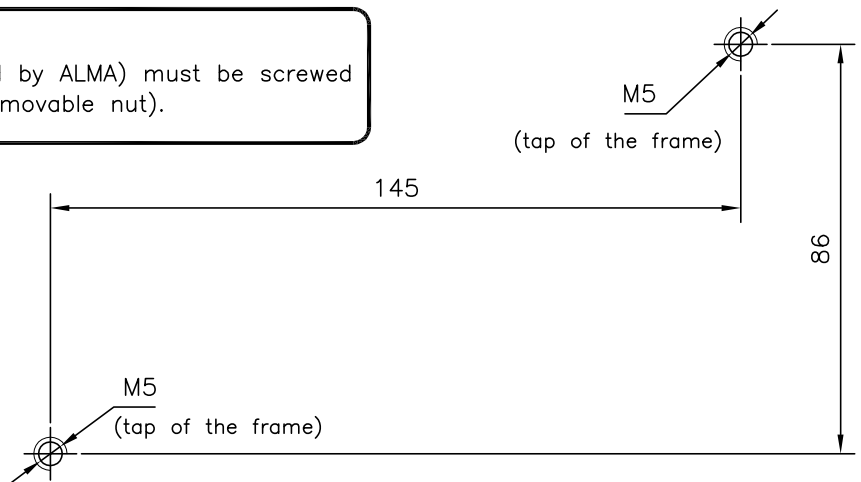
OVERALL DIMENSIONS

- The identification plate shall be installed near the associated indicator device, and of easy access in order to be able to stamp the regulatory marks.



NOTE:

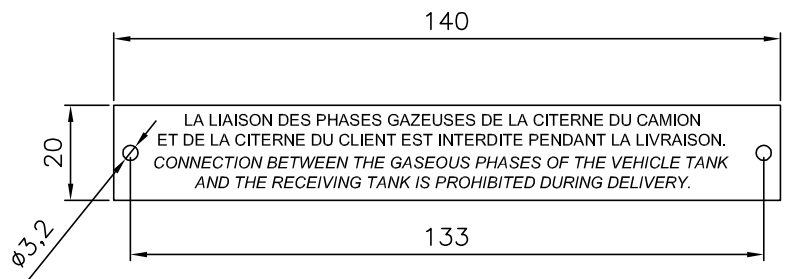
the security screws of the cups (provided by ALMA) must be screwed in a tap of the frame (do not use unremovable nut).



REGULATORY LABEL

NOTE:

the regulatory label must be put up close to the MICROCOMPT+ indicator.



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MEASURING SYSTEM IDENTIFICATION PLATE KIT

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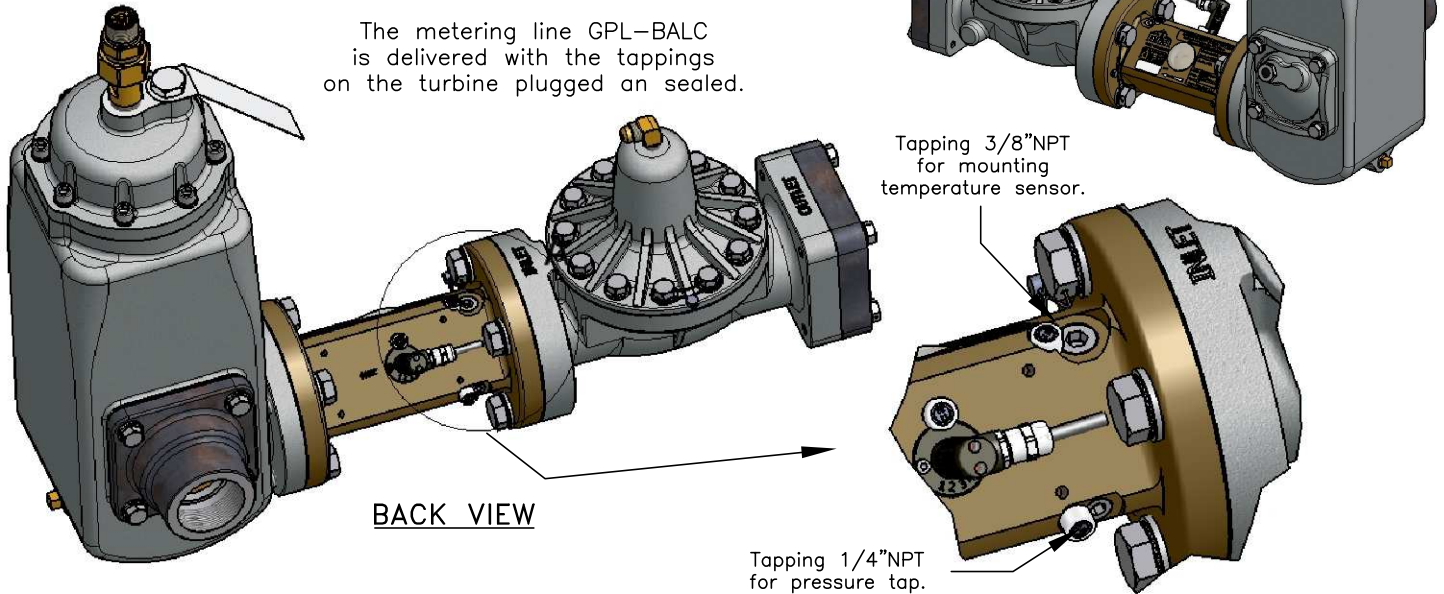
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Folio

05

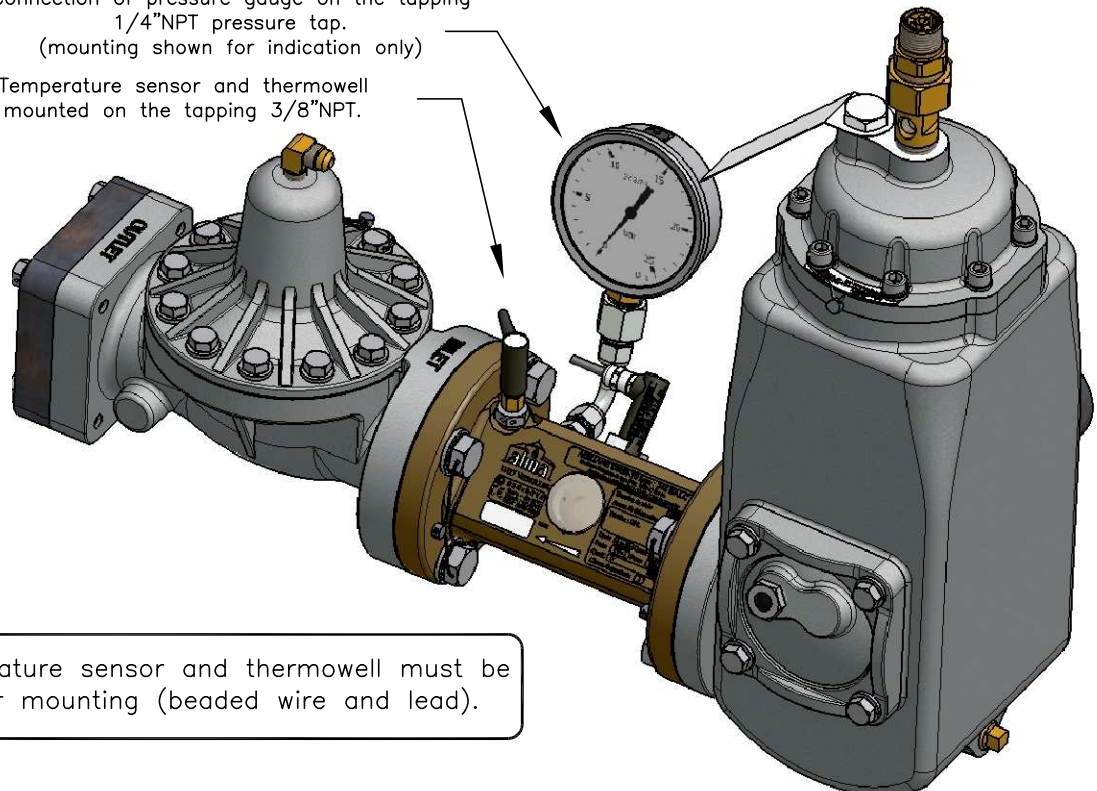
MOUNTING TEMPERATURE SENSOR AND PRESSURE GAUGE

POSITIONS OF TAPPINGS 3/8"NPT AND 1/4"NPT FOR MOUNTING OF THE TEMPERATURE SENSOR AND PRESSURE TAP.



Connection of pressure gauge on the tapping 1/4"NPT pressure tap.
(mounting shown for indication only)

Temperature sensor and thermowell mounted on the tapping 3/8"NPT.



The temperature sensor and thermowell must be sealed after mounting (beaded wire and lead).

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GPL-Tronique

MOUNTING TEMPERATURE SENSOR AND PRESSURE GAUGE

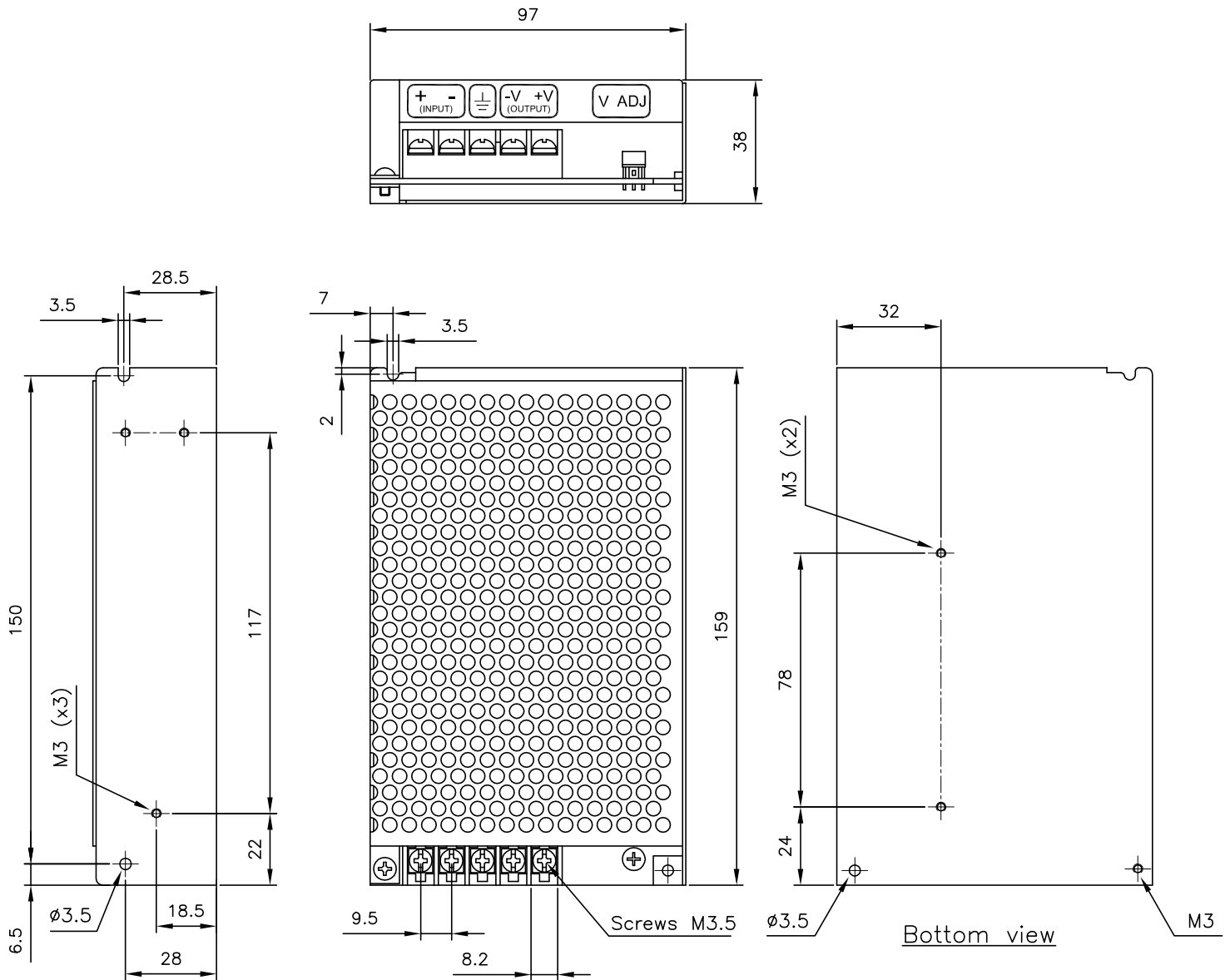
Rev.folio

B

Folio

06

OVERALL DIMENSIONS



Weight: 0.38kg

CONVERTER:

Vi: 19 to 36Vdc

Vo: 24Vdc

Output current: 2.1A

Output power: 50W

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CONVERTER 24Vdc/24Vdc 2.1A 50W (base version)

Rev.folio
B

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07

ELECTRICAL PART

See the document DI 001 EN for general recommendations

(All file available on ALMA website)

FR: Abréviation des couleurs de câble.
 EN: Cable colors abbreviation.
 IT: Abbreviazione dei colori di cavo.
 ES: Abreviatura de los colores de cable.
 DE: Abkürzung der Kabelfarben.

FR		EN		IT		ES		DE	
Couleur	Ab.	Color	Ab.	Colore	Ab.	Colore	Ab.	Farbe	Ab.
Blanc	Bc	White	WH	Bianco	Bi	Blanco	Bl	Weiß	Wb
Marron	Mr	Brown	BN	Marrone	Mr	Marrón	Ma	Braun	Br
Vert	Vt	Green	GN	Verde	Vd	Verde	Ve	Grün	Gn
Jaune	Jn	Yellow	YE	Giallo	Gi	Amarillo	Am	Gelb	Bb
Gris	Gr	Gray	GY	Grigio	Gr	Gris	Gr	Grau	Gu
Rose	Rs	Pink	PK	Rosa	Rs	Rosa	Rs	Rosa	Rs
Bleu	Bl	Blue	BU	Blu	Bl	Azul	Az	Blau	Bl
Rouge	Rg	Red	RD	Rosso	Ro	Rojo	Ro	Rot	Rt
Noir	Nr	Black	BK	Nero	Nr	Negro	Ne	Schwarz	Sz
Violet	Vi	Violet	VT	Violetta	Vi	Violeta	Vi	Violett	Vt
Orange	Or	Orange	OG	Arancione	Ar	Naranja	Na	Apfelsine	Ap

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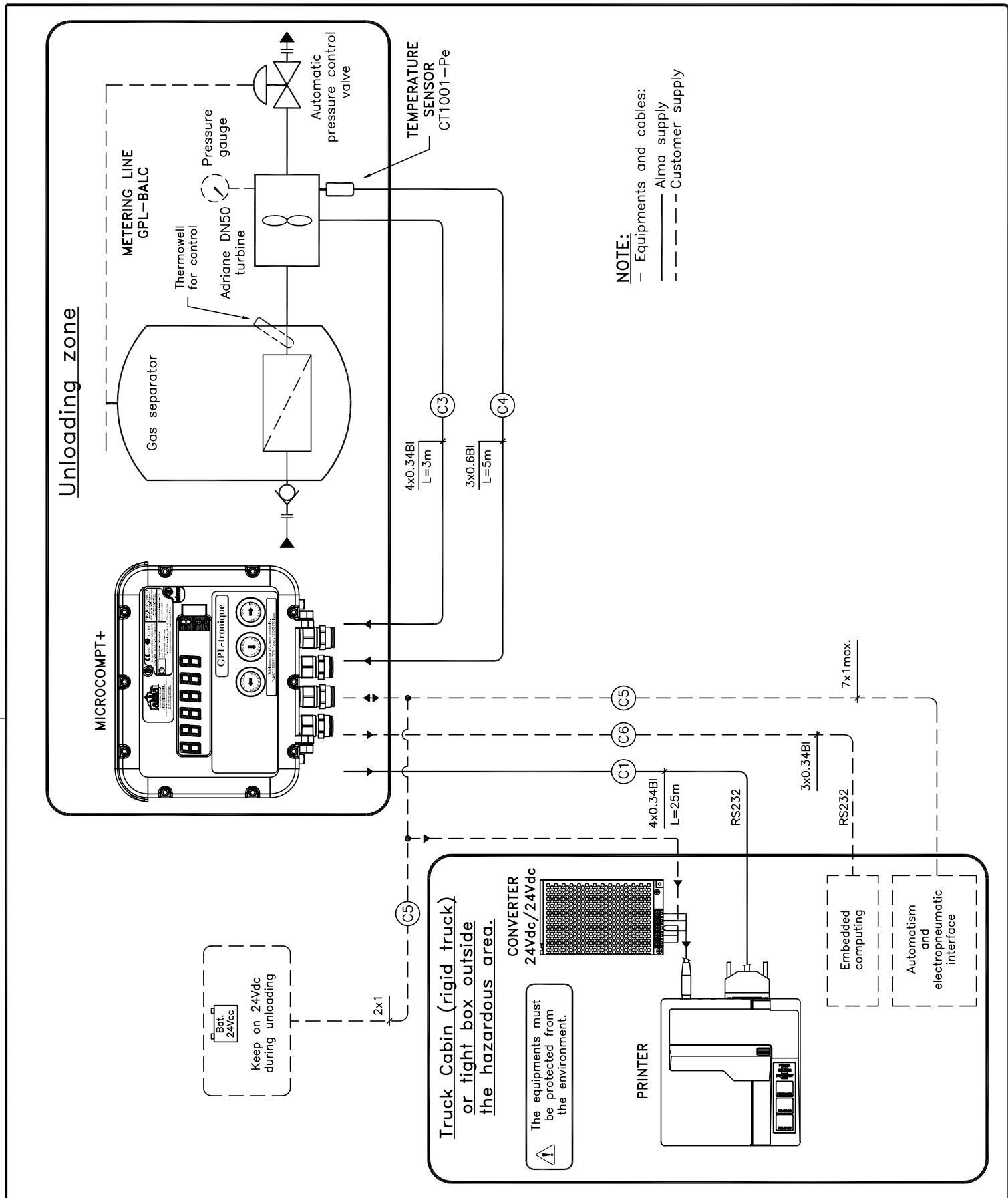
ELECTRICAL PART

Rev.folio

B

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08



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GPL-Tronique
ELECTRICAL DIAGRAM (base version)

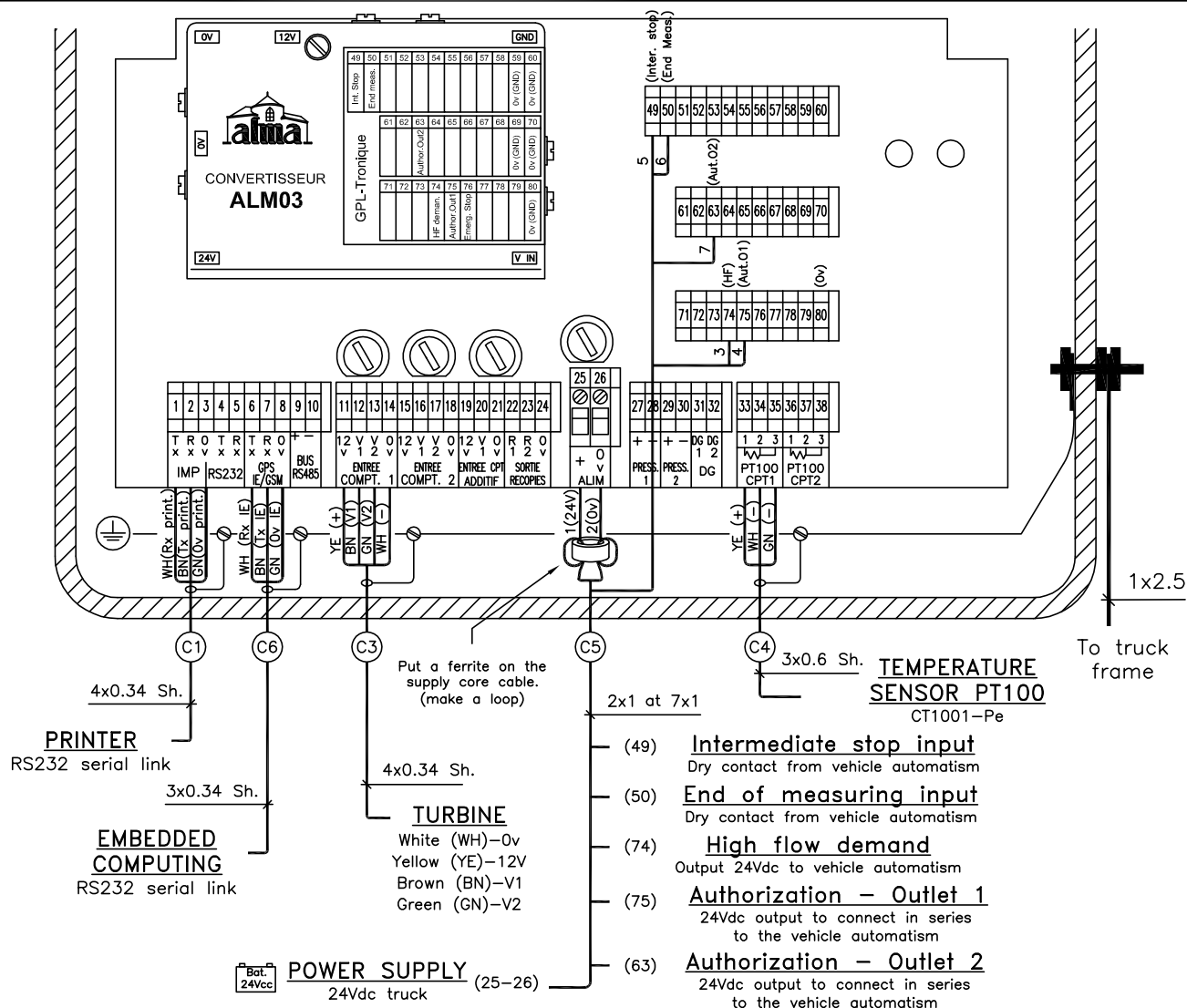
Rev.folio

C

Folio

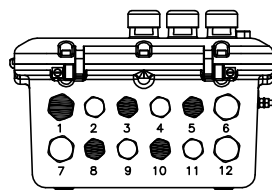
09

ELECTRICAL WIRING MICROCOMPT+ (base version)



CABLE GLAND ASSIGNMENT (for indication only)

	Rep. CG	Nb Cable	Function	Option	CG type	Alma cable
Upper line	1	C6	EMBEDDED COMPUTING (RS232 serial link)	•	1	—
	2	—	Not used	—	3	—
	3	C3	TURBINE (metering line GPL-BALC)	—	2	•
	4	—	Not used	—	3	—
	5	C4	TEMPERATURE SENSOR PT100 CT1001-Pe	•	2	•
	6	—	Not used	—	3	—
Lower line	7	—	Not used	—	3	—
	8	C1	PRINTER (RS232 serial link)	—	2	•
	9	—	Not used	—	3	—
	10	C5	POWER SUPPLY (without or with vehicle automatism)	—	2	—
	11	—	Not used	—	3	—
	12	—	Not used	—	3	—



CABLE GLAND WITH COMPOUND CHAMBER

- Type 1: 3/4"NPT
Cable Ø5.5 to Ø13 (3 rings)
Sheath Ø10 to Ø19 (2 rings)
- Type 2: 1/2"NPT
Cable Ø4 to Ø10 (2 rings)
Sheath Ø5 to Ø15 (2 rings)
- Type 3: plug

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INSTALLATION GUIDE DI 005 EN GPL-Tronique

ELECTRICAL WIRING MICROCOMPT+ (base version)

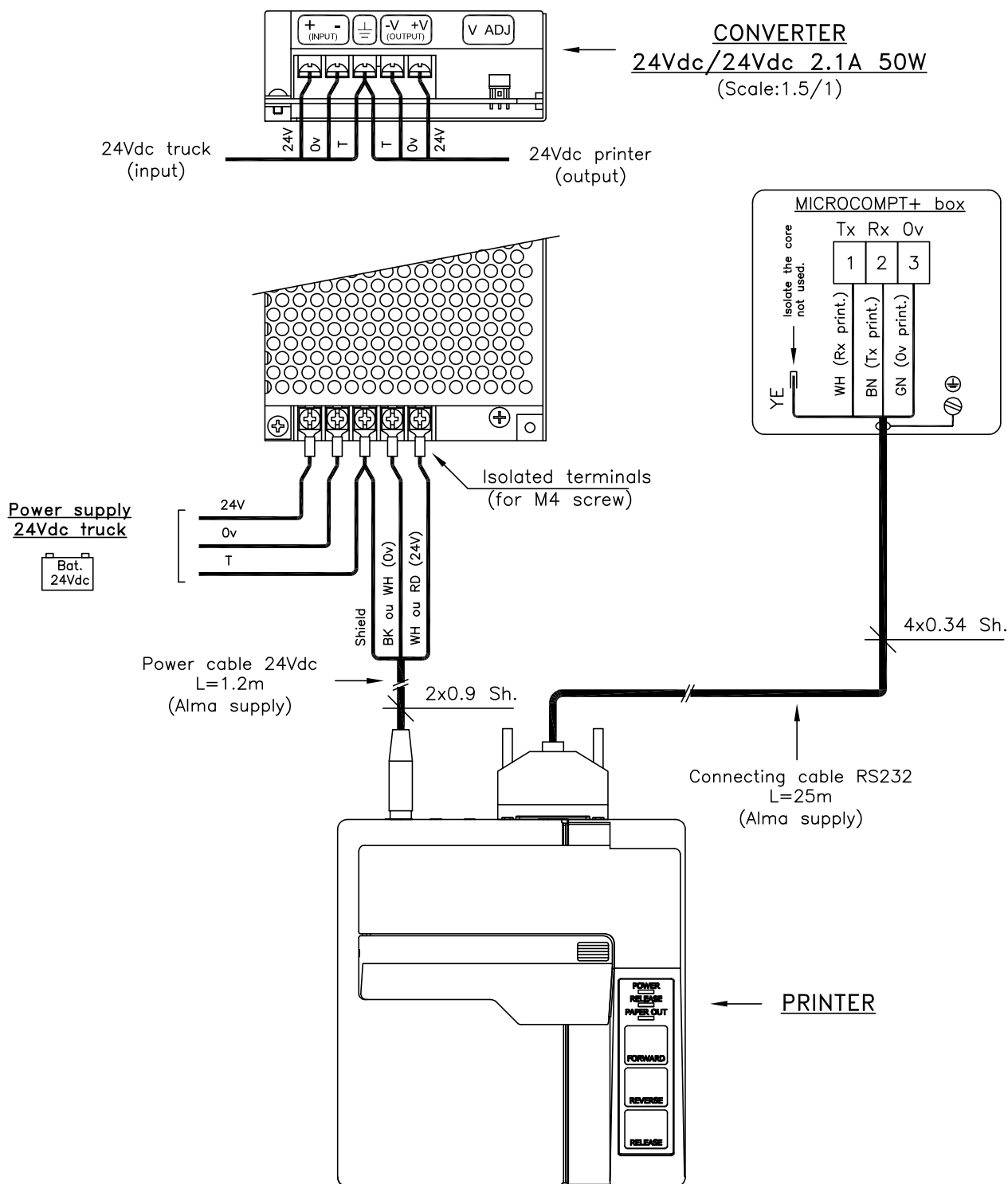
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10

ELECTRICAL WIRING PRINTER CONVERTER (base version)



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GPL-Tronique

ELECTRICAL WIRING PRINTER CONVERTER (base version)

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GPL-Tronique CD:

The remote control of the GPL-Tronique integrates a control box "COFFRET DE PILOTAGE".



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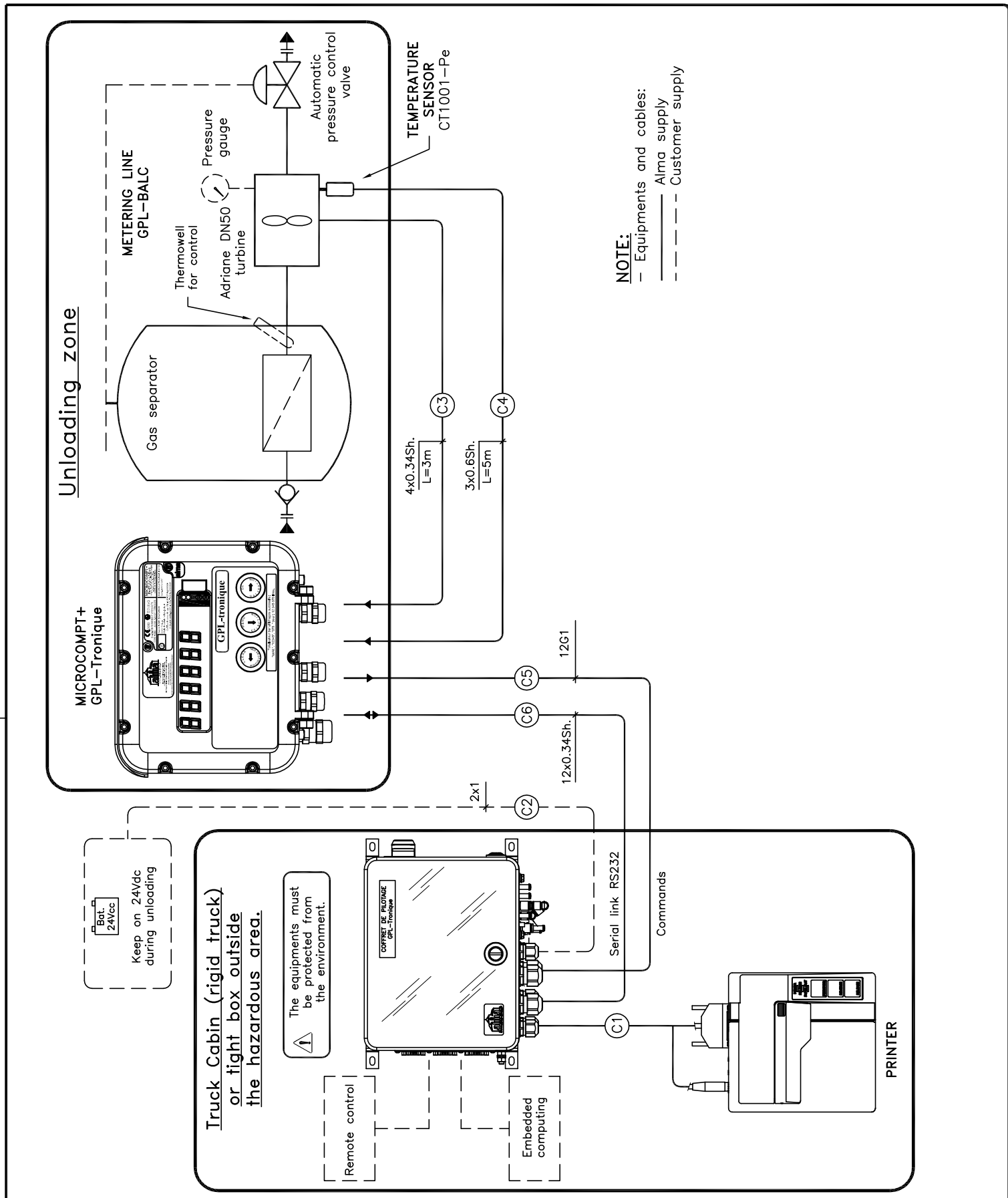
GPL-Tronique CD

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INSTALLATION GUIDE DI 005 EN
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ELECTRICAL DIAGRAM (CD version)

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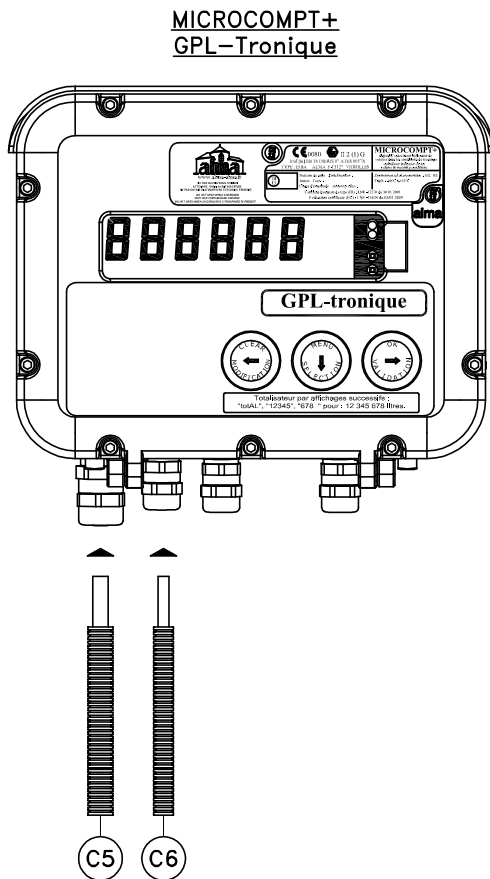
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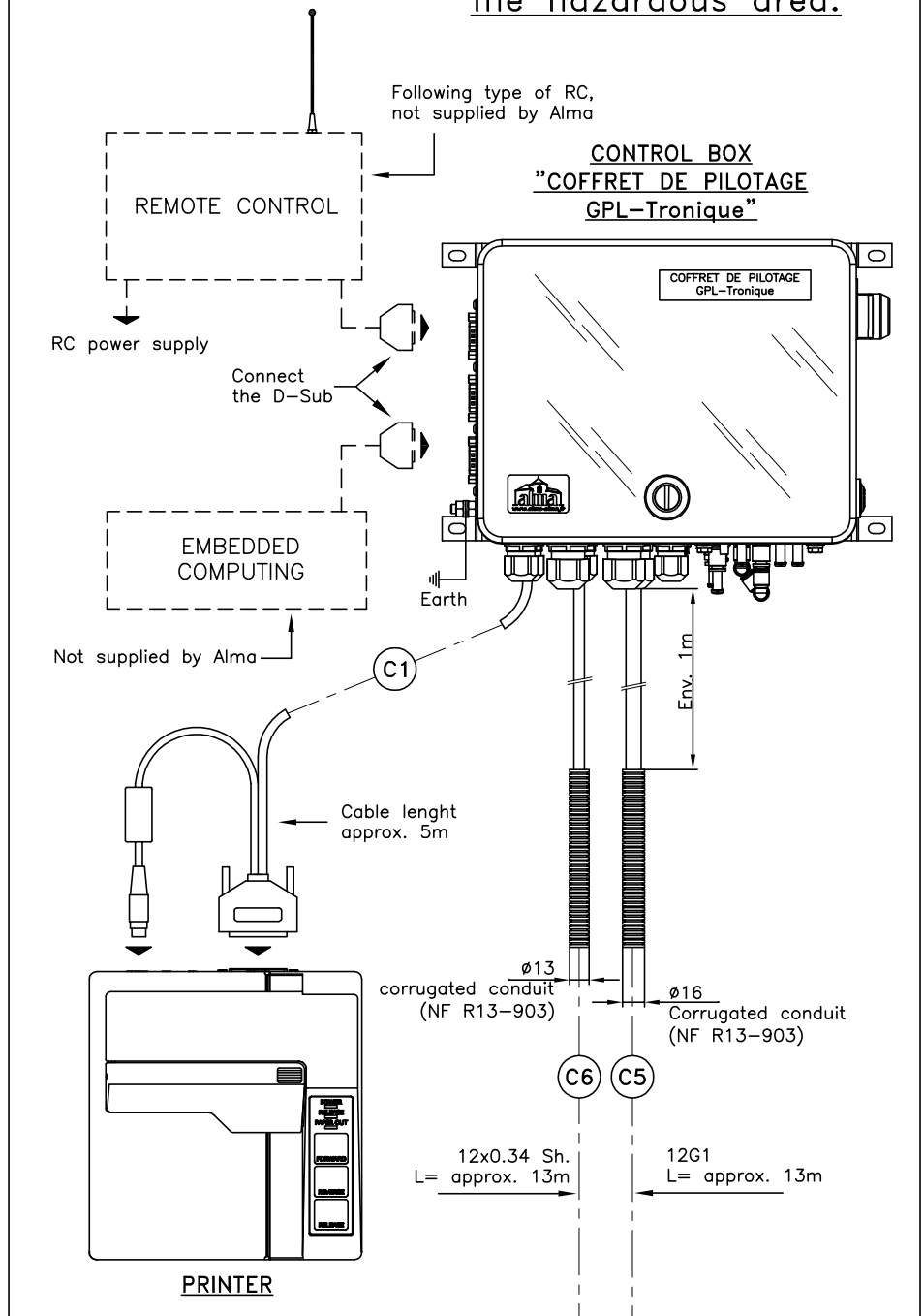
CONNECTION OF THE EQUIPMENTS WITH THE CONTROL BOX (CD version)

HAZARDOUS AREA



! The equipments must be protected from the environment.

Truck Cabin (rigid truck)
or tight box outside
the hazardous area.



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CON. EQUIPMENTS WITH THE CONTROL BOX (CD version)

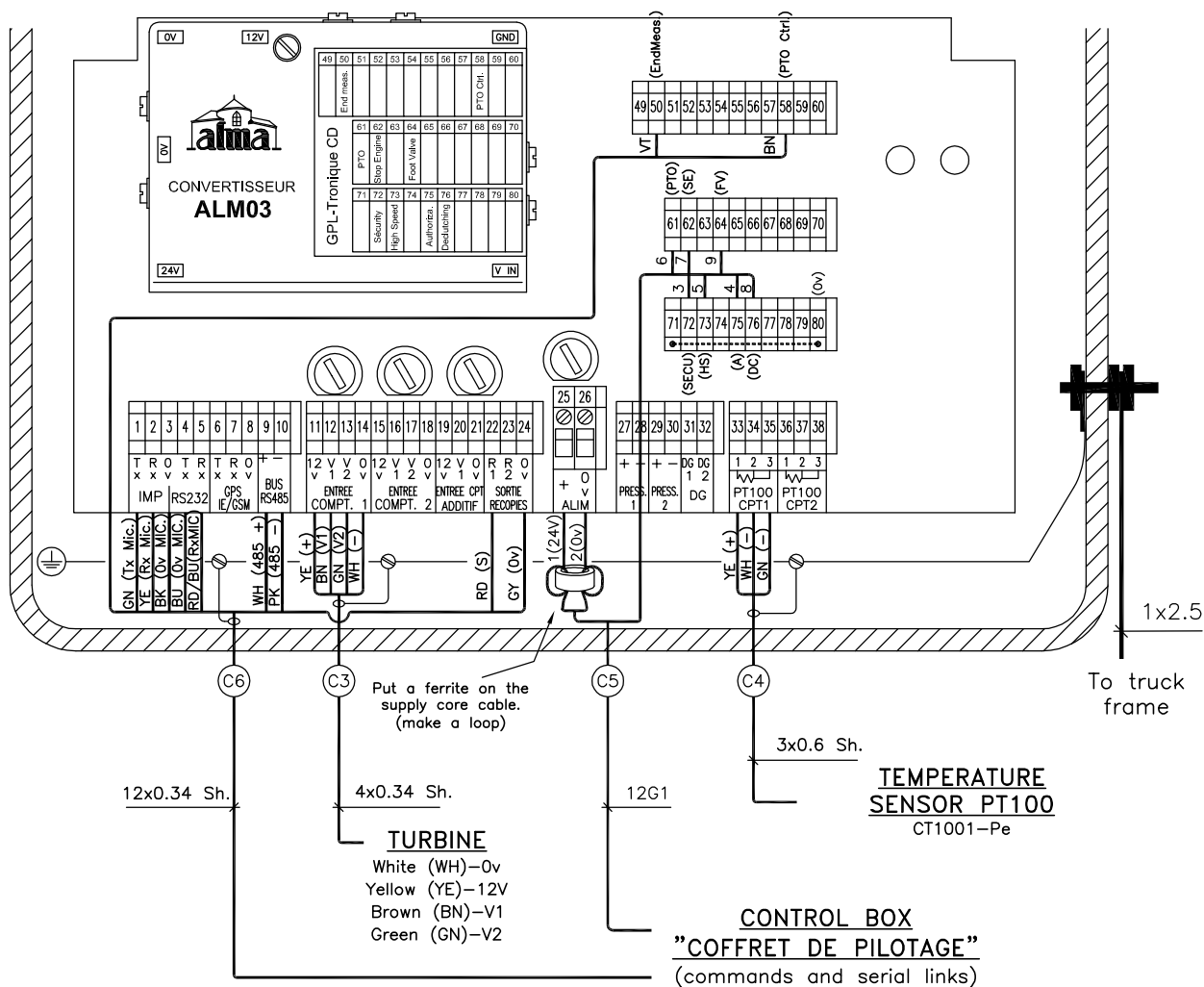
Rev.folio

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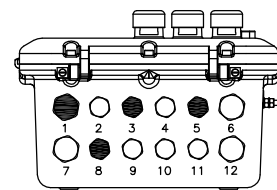
14

ELECTRICAL WIRING MICROCOMPT+ (CD version)



CABLE GLAND ASSIGNMENT (for indication only)

	Rep. CG	Nb Cable	Function	Option	CG type	Alma cable
Upper line	1	C5	CABLE OF THE COMMANDS	—	1	—
	2	—	Not used	—	3	—
	3	C3	TURBINE (metering line GPL-BALC)	—	2	•
	4	—	Not used	—	3	—
	5	C4	TEMPERATURE SENSOR PT100 CT1001-Pe	•	2	•
	6	—	Not used	—	3	—
Lower line	7	—	Not used	—	3	—
	8	C6	CABLE OF THE SERIAL LINKS	—	2	•
	9	—	Not used	—	3	—
	10	—	Not used	—	3	—
	11	—	Not used	—	3	—
	12	—	Not used	—	3	—



CABLE GLAND WITH COMPOUND CHAMBER

- Type 1: 3/4"NPT
Cable Ø5.5 à Ø13 (3 rings)
Sheath Ø10 à Ø19 (2 rings)
- Type 2: 1/2"NPT
Cable Ø4 à Ø10 (2 rings)
Sheath Ø5 à Ø15 (2 rings)
- Type 3: plug

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ELECTRICAL WIRING MICROCOMPT+ (CD version)

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ASSIGNMENTS OF THE CABLES (CD version)

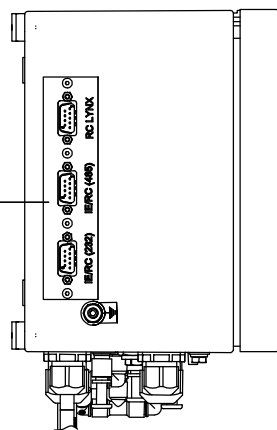
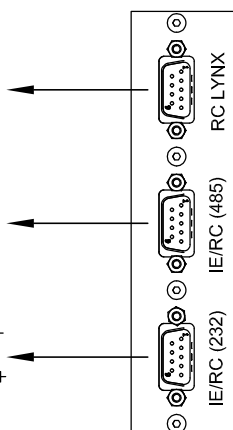
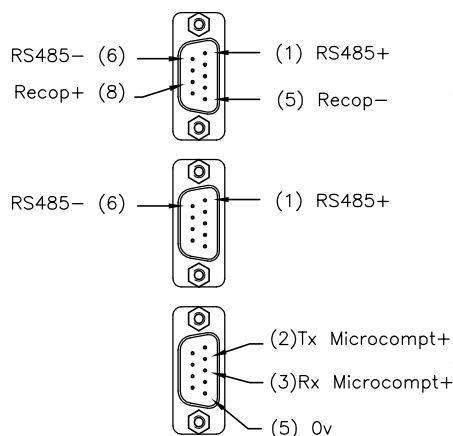
CABLE OF THE COMMANDS (C5) – Cable 12G1

MICROCOMPT+ (interface card V1 rev 8)		CABLE C5 Nb wire	CONTROL BOX "COFFRET DE PILOTAGE" (interface card GPL and valve terminal)			
Power supply 24Vcc	25	1	BN4-1	Fuse	–	–
Power supply 0v	26	2	BN4-2	–	BN5-2	0v (Vt/Nr)
Safety request	72	3	BN4-3	Relay "SECURITY"	–	–
Authorization	75	4	BN4-4	SV Authorization (A)	BN5-3	BN/RD – 3/2NC (A)
High speed	73	5	BN4-5	Relay "High Speed"	–	–
Power take off (PTO)	61	6	BN4-6	SV power take off (PTO)	BN5-4	RD/BU – 3/2NC (PTO)
Stop engine	62	7	BN4-7	Relay "Stop Engine"	–	–
Declutching	76	8	BN4-8	SV declutching (DC)	BN5-5	BK/OG – 3/2NC (DC)
Foot valve opening	64	9	BN4-9	SV foot valve (FV)	BN5-6	RD/YE – 3/2NC (FV)
–	–	–	Relay SECU.	SV Emergency Stop (ES)	BN5-1	WH/BK – 3/2NC (ES)

SV = Solenoid valve.

CABLE OF THE SERIAL LINKS (C6) – Cable 12x0.34 Sh.

MICROCOMPT+ (interface card V1 rev 8)			CABLE C6 Color of the wires	CONTROL BOX "COFFRET DE PILOTAGE"	
Printer	Tx	1	Green (GN)	BN1-1	Rx printer BN2-1 (GN)
	Rx	2	Yellow (YE)	BN1-2	Tx printer BN2-2 (YE)
	0v	3	Black (BK)	BN1-3	0v printer BN2-3 (BN)
RC LYNX Serial link RS485: embedded computing Remote control	RS485–	10	Pink (PK)	BN1-4	D-Sub RC LYNX – IE/RC (485)
	RS485+	9	White (WH)	BN1-5	D-Sub RC LYNX – IE/RC (485)
	Recop+	22	Red (RD)	BN1-6	D-Sub RC LYNX
	Recop–	24	Gray (GY)	BN1-7	D-Sub RC LYNX
End of the measuring	–	50	Violet (VL)	BN1-8	–
PTO Control	–	58	Brown (BN)	BN1-9	–
Serial link RS232: embedded computing Remote control	Tx	4	Blue (BU)	BN1-10	D-Sub IE/RC (232) – Pin 2
	Rx	5	Red/Blue (RD/BU)	BN1-11	D-Sub IE/RC (232) – Pin 3



3 D-Sub on the left side of the box.

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Angle: degree (°)

Temperature: degree Celsius (°C)

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ASSIGNMENTS OF THE CABLES (Cds and SL) (CD version)

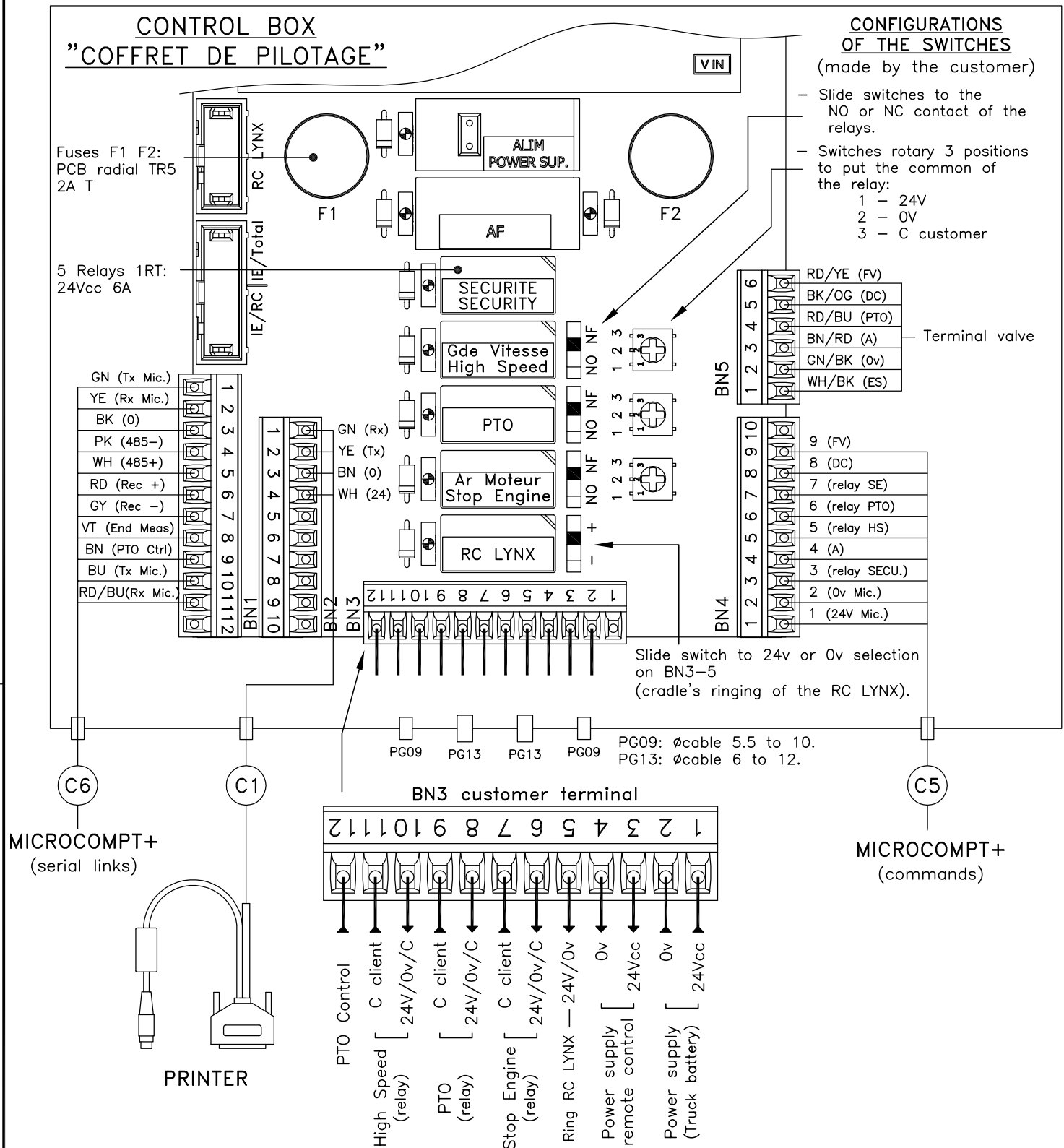
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ELECTRICAL WIRING CONTROL BOX "COFFRET DE PILOTAGE" (CD version)



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ELECTRICAL WIRING CONTROL BOX (CD version)

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REMOTE CONTROL RCT4

REMOTE CONTROL RECEIVER (Non ATEX equipment)



REMOTE CONTROL TRANSMITTER (ATEX equipment)



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REMOTE CONTROL RCT4

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CONNECTION OF THE EQUIPMENTS WITH THE CONTROL BOX (RCT4)

HAZARDOUS AREA



The equipments must be protected from the environment.

Truck Cabin (rigid truck)
or tight box outside
the hazardous area.

CONTROL BOX
"COFFRET DE PILOTAGE
GPL-Tronique"

EMBEDDED
COMPUTING

Not supplied by Alma

Connect
the D-Sub

Earth 111

MICROCOMPT+
GPL-Tronique

REMOTE CONTROL

REMOTE CONTROL RECEIVER

REMOTE CONTROL TRANSMITTER

PRINTER

$\overline{\phi 13}$
 corrugated
 conduit
 (NF R13-903)

12x0.34 Sh.
L $\approx$ 13m

$$L \approx 1.5m$$

Corrugated conduit
(NF R13-903)

7G1 $L \approx 13\text{m}$

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CONNECTION OF THE EQUIP. WITH THE CONTROL BOX (RCT4)

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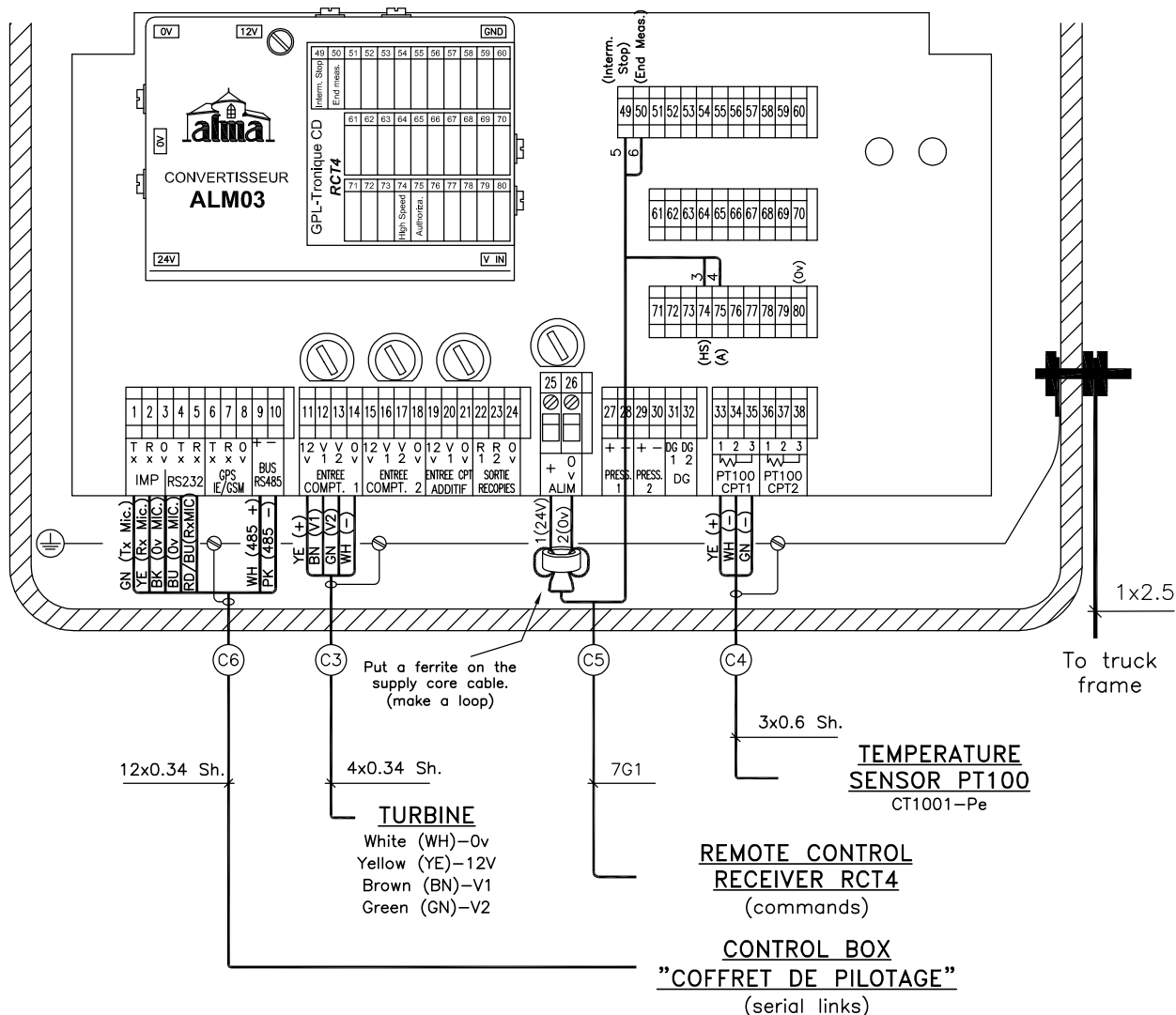
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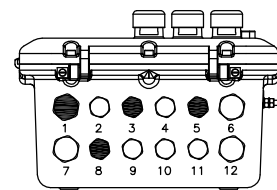


ELECTRICAL WIRING MICROCOMPT+ (RCT4)



CABLE GLAND ASSIGNMENT (for indication only)

	Rep. CG	Nb Cable	Function	Option	CG type	Alma cable
Upper line	1	C5	CABLE OF THE COMMANDS	—	1	—
	2	—	Not used	—	3	—
	3	C3	TURBINE (metering line GPL-BALC)	—	2	•
	4	—	Not used	—	3	—
	5	C4	TEMPERATURE SENSOR PT100 CT1001-Pe	•	2	•
	6	—	Not used	—	3	—
Lower line	7	—	Not used	—	3	—
	8	C6	CABLE OF THE SERIAL LINKS	—	2	•
	9	—	Not used	—	3	—
	10	—	Not used	—	3	—
	11	—	Not used	—	3	—
	12	—	Not used	—	3	—



CABLE GLAND WITH COMPOUND CHAMBER

- Type 1: 3/4"NPT
Cable Ø5.5 à Ø13 (3 rings)
Sheath Ø10 à Ø19 (2 rings)
- Type 2: 1/2"NPT
Cable Ø4 à Ø10 (2 rings)
Sheath Ø5 à Ø15 (2 rings)
- Type 3: plug

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ELECTRICAL WIRING MICROCOMPT+ (RCT4)

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ASSIGNMENTS OF THE CABLES (RCT4)

CABLE OF THE COMMANDS (C5) – Cable 7G1

MICROCOMPT+ (interface card V1 rev 8)		CABLE C5 Nb wire	REMOTE CONTROL RECEIVER RCT4 (interface card RCT4)	
Power supply 24Vcc	25	1	BN1-1	24Vcc
Power supply 0v	26	2	BN1-2	0v
High speed	74	3	J4-5	IN2 – High speed (HS)
Authorization	75	4	J4-4	IN1 – Authorization (A)
Intermediate stop	49	5	J4-3	OUT2 – Intermediate stop (IS)
End measuring	50	6	J4-2	OUT1 – End measuring (EM)

CABLE OF THE SERIAL LINKS (C6) – Cable 12x0.34 Sh.

MICROCOMPT+ (interface card V1 rev 8)			CABLE C6 Color of the wires	CONTROL BOX "COFFRET DE PILOTAGE"	
Printer	Tx	1	Green (GN)	BN1-1	Rx printer BN2-1 (GN)
	Rx	2	Yellow (YE)	BN1-2	Tx printer BN2-2 (YE)
	0v	3	Black (BK)	BN1-3	0v printer BN2-3 (BN)
Serial link RS485: embedded computing Remote control	RS485-	10	Pink (PK)	BN1-4	D-Sub IE/RC (485)
	RS485+	9	White (WH)	BN1-5	D-Sub IE/RC (485)
Serial link RS232: embedded computing Remote control	Tx	4	Blue (BU)	BN1-10	D-Sub IE/RC (232)
	Rx	5	Red/Blue (RD/BU)	BN1-11	D-Sub IE/RC (232)

CABLE OF THE COMMANDS (C7) – Cable 12G1

REMOTE CONTROL RECEIVER RCT4 (interface card RCT4)		CABLE C7 Nb wire	CONTROL BOX "COFFRET DE PILOTAGE" (interface card GPL and valve terminal)			
24Vcc Microcompt+	BN1-1	1	BN4-1	Fuse	–	–
0v Microcompt+	BN1-2	2	BN4-2	–	BN5-2	0v (Vt/Nr)
Safety request	J2-5 S7+	3	Shunt with wire WH/BK	EV Emergency Stop (ES)	Shunt with wire 3	WH/BK – 3/2NC (ES)
Authorization	J4-4	4	BN4-4	SV Authorization (A)	BN5-3	BN/RD – 3/2NC (A)
High speed	J1-7 S4+	5	BN4-5	Relay "High Speed"	–	–
Power take off	J1-5 S3+	6	BN4-6	SV power take off (PTO)	BN5-4	RD/BU – 3/2NC (PTO)
Stop engine	J2-3 S6+	7	BN4-7	Relay "Stop Engine"	–	–
Declutching	J1-1 S1+	8	BN4-8	SV declutching (DC)	BN5-5	BK/OG – 3/2NC (DC)
Foot valve opening	J1-3 S2+	9	BN4-9	SV foot valve (FV)	BN5-6	RD/YE – 3/2NC (FV)
Power supply 24Vcc card	J3-1	10	BN3-3	24V (RC card and cradle)	–	–
Power supply 0v card	J3-2	11	BN3-4	0v (RC card and cradle)	–	–
–	–	YE/GN	–	–	–	–

SV = Solenoid valve.

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ASSIGNMENTS OF THE CABLES (Cds and S. Links) (RCT4)

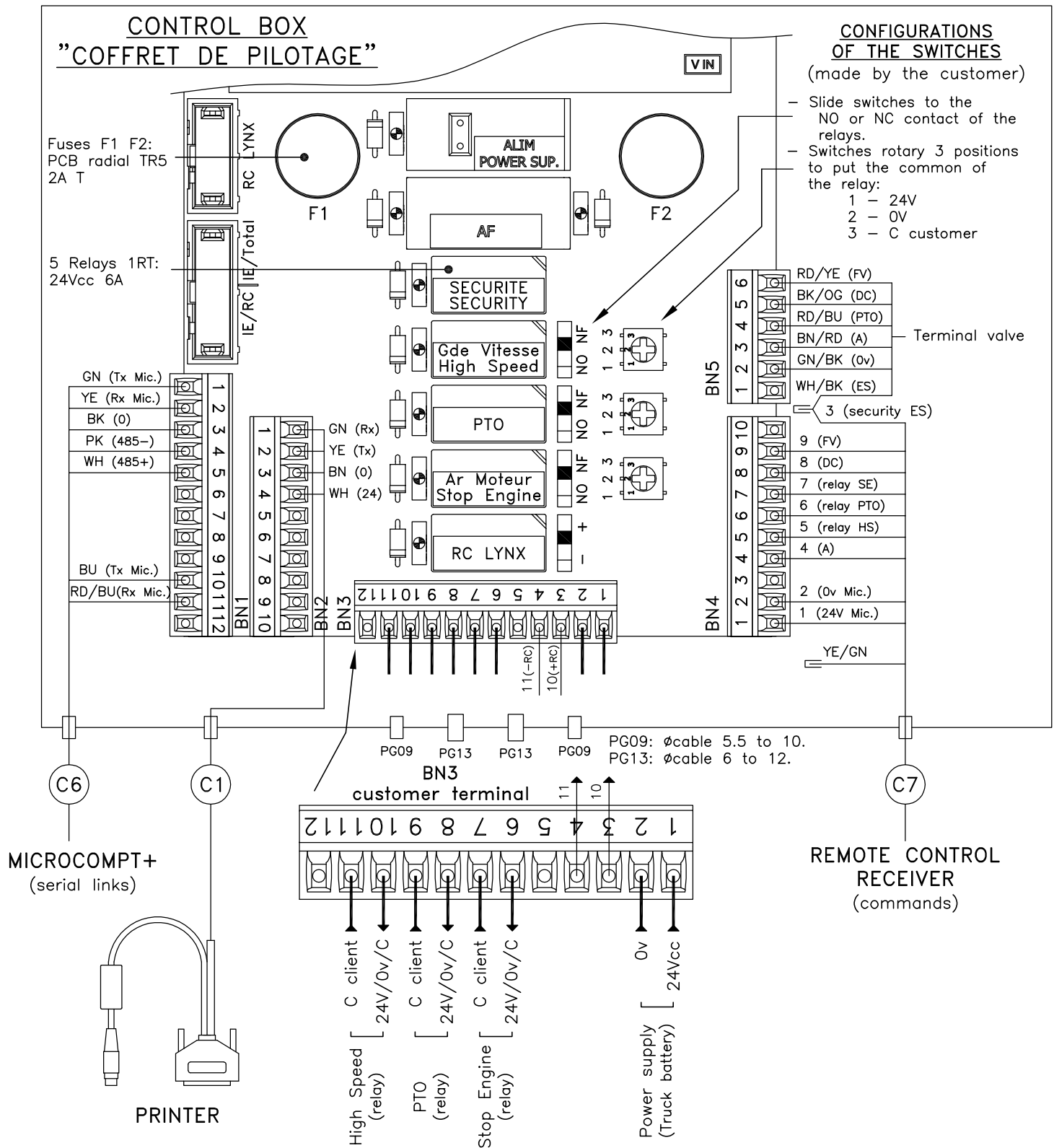
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ELECTRICAL WIRING CONTROL BOX "COFFRET DE PILOTAGE" (RCT4)



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ELECTRICAL WIRING CONTROL BOX (RCT4)

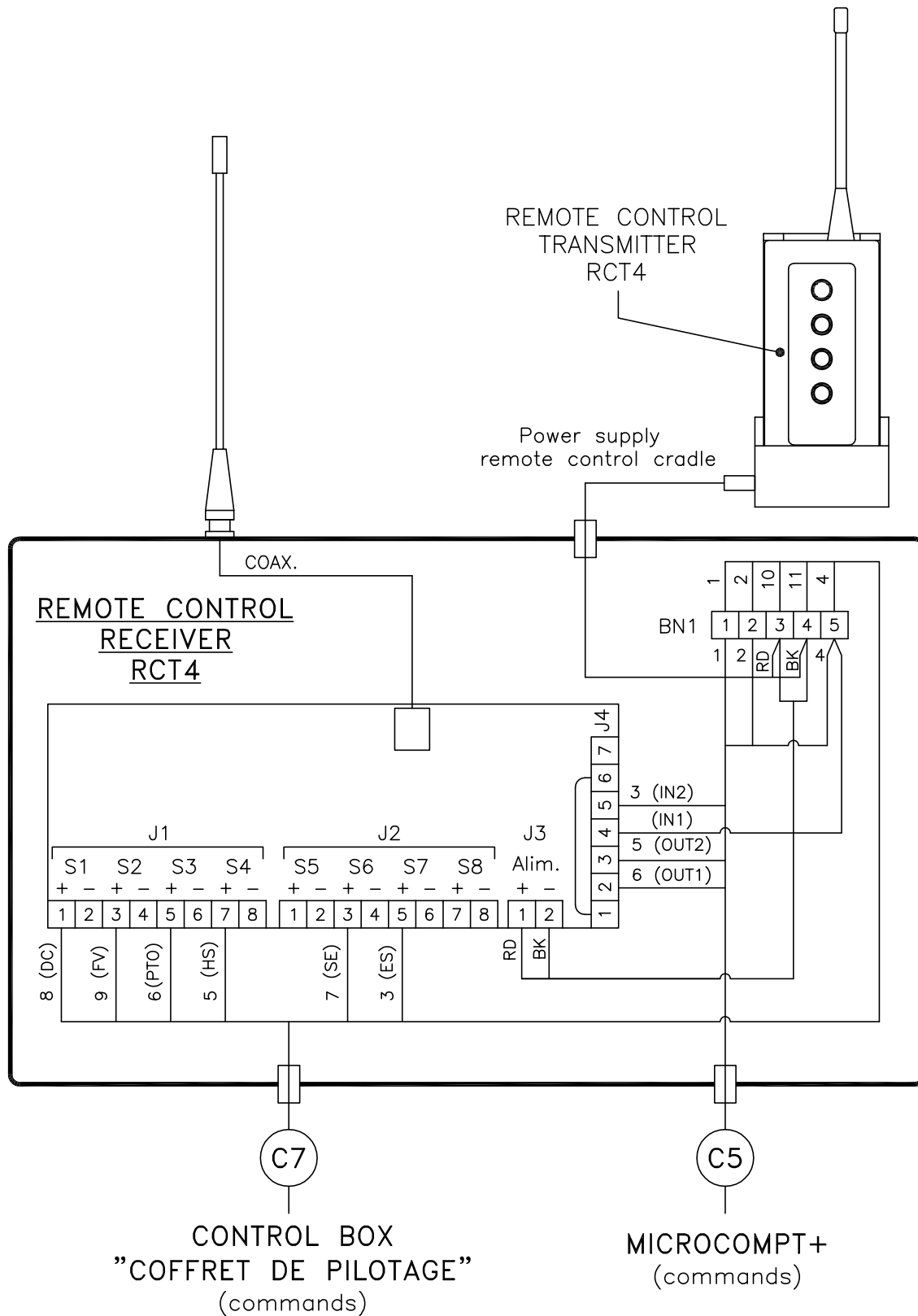
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ELECTRICAL WIRING REMOTE CONTROL RECEIVER RCT4



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ELECTRICAL WIRING REMOTE CONTROL RECEIVER RCT4

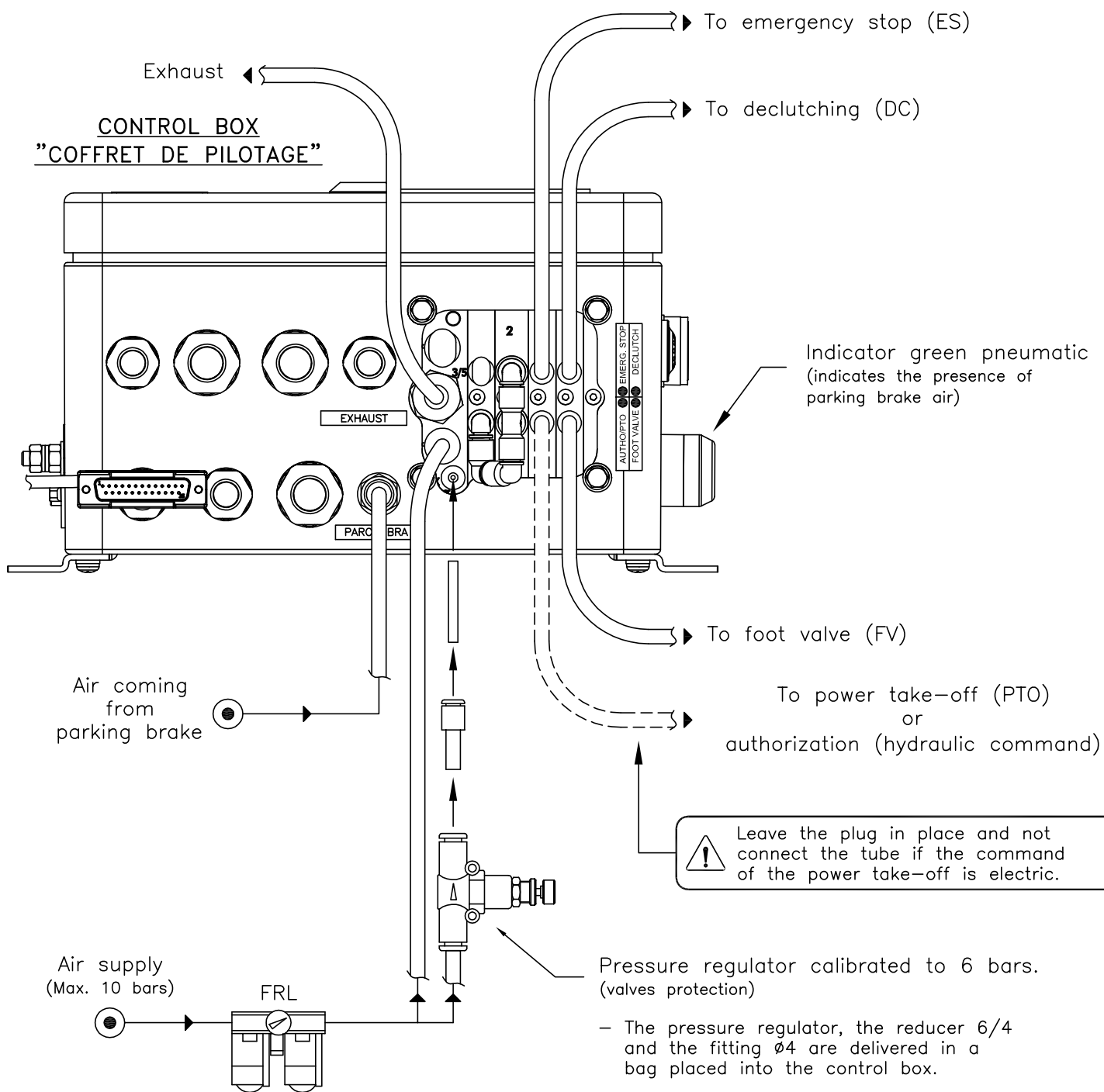
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PNEUMATIC COUPLING



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