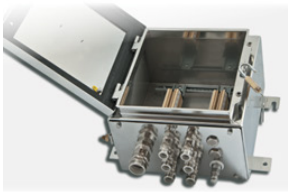


ATEX ENCLOSURES : CTB



The CTB series enclosures are large junction boxes made of 316L stainless steel (ASI); thanks to their high level of quality and the use of selected raw materials treated with state-of-the-art technologies, these boxes resist to severe external factors, such as water, dust, violent shocks, vibrations, corrosion and extreme fluctuations in temperature, ensuring a very long life. The CTB series enclosures are generally installed in areas 1, 2, 21, 22 and used with connection terminals or with electrical equipment for monitoring, control, signaling. The enclosures can be drilled and tapped on both the sides and the lid in accordance with customer demand.

RANGE OF AMBIENT TEMPERATURES :

AMBIENT TEMPERATURE	TEMPERATURE CLASS	MAXIMUM SURFACE TEMPERATURE	MAXIMUM TERMINAL OPERATING TEMPERATURE
-40°C +40°C	T6	T75°C	+80°C
-40°C +55°C	T5	T75°C	+95°C

TEMPERATURE RANGE FOR SIGNALING (MAX 1 A FOR CIRCUITS OTHER THAN Ex i, MAX 100 mA FOR «Ex i» CIRCUITS :

AMBIENT TEMPERATURE	TEMPERATURE CLASS	MAXIMUM SURFACE TEMPERATURE	MAXIMUM TERMINAL OPERATING TEMPERATURE
-40°C +60°C	T6	T75°C	+80°C



TEMPERATURE RANGE FOR SIGNALING (MAX 10 A FOR CIRCUITS OTHER THAN Ex i, MAX 100 mA FOR «Ex i» CIRCUITS :

AMBIENT TEMPERATURE	TEMPERATURE CLASS	MAXIMUM SURFACE TEMPERATURE	MAXIMUM TERMINAL OPERATING TEMPERATURE
-60°C +85°C	T4	T110°C	+120°C

CERTIFICATION DATA FOR ENCLOSURES WITH TERMINALS :

Classification:	Group II	Category 2GD		
Installation: EN 60079.14	zone 1 - zone 2 (Gas)	zone 21 - zone 22 (Dust)		
Marking:	CE 0722 Ex II 2GD Ex eb IIC T6/T5/T4 Gb - Ex tb IIIC T75°C/T110°C Db IP66			
	CE 0722 Ex II 2GD Ex e ia IIC T6/T5/T4 Gb - Ex ia IIIC T75°C/T110°C Db IP66			
	CE 0722 Ex II 2GD Ex eb ia IIC T6/T5/T4 Gb - Ex tb ia IIIC T75°C/T110°C Db IP66			
Certification:	ATEX CESI 03 ATEX 333			
	IEC Ex CES 13.0001			All IEC Ex, TR CU and INMETRO certification data can be downloaded from www.cortemgroup.com
	TR CU AVAILABLE			
	INMETRO DNV 15.0119			
Standards:	CENELEC EN 60079-0: 2012+A11:2013, EN 60079-7: 2015, EN 60079-11: 2012, EN 60079-31: 2014 ed alla DIRETTIVA EUROPEA 2014/34/UE IEC 60079-0: 2011, IEC 60079-7: 2015, IEC 60079-11: 2011, IEC 60079-31: 2013			
Ambient Temp.:	See "ambient temperature range" table			
Degree of protection:	IP66			

CERTIFICATION DATA FOR ENVELOPES OF CONTROL, MONITORING AND SIGNALING UNITS :

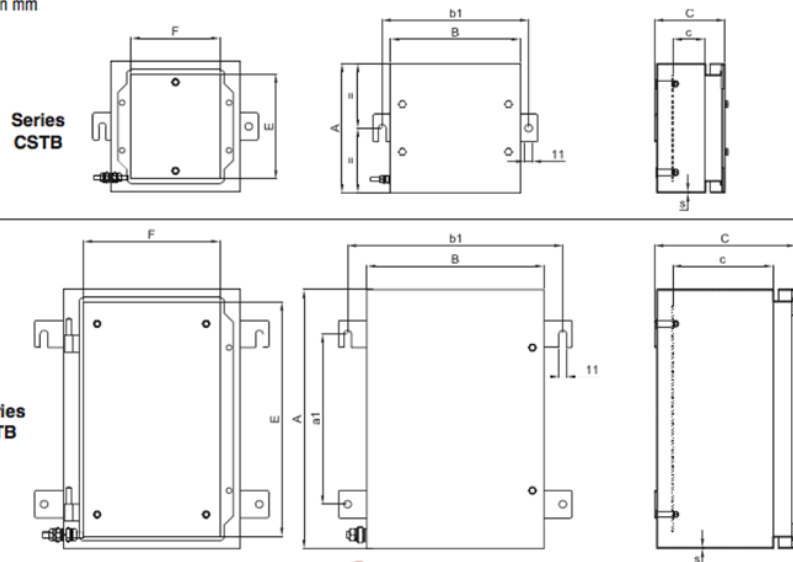
Classification:	Group II	Category 2GD		
Installation: EN 60079.14	zone 1 - zone 2 (Gas)	zone 21 - zone 22 (Dust)		
Marking:	CE 0722 Ex II 2GD - Ex de IIC T6/T5 Gb - Ex tb IIIC T85°C/T100°C Db - IP66			
	CE 0722 Ex II 2GD - Ex e IIC T6/T5 Gb - Ex tb IIIC T85°C/T100°C Db - IP66 (When on the box is installed only ammeter or voltmeter type B-0140)			
Certification:	ATEX CESI 03 ATEX 115			
	IEC Ex CES 11.0032			All IEC Ex, TR CU and INMETRO certification data can be downloaded from www.cortemgroup.com
	TR CU AVAILABLE			
	INMETRO DNV 15.0125			
Standards:	CENELEC EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-7: 2007, N 60079-31: 2009, EN 60529: 1991 and EUROPEAN DIRECTIVE 2014/34/UE IEC 60079-0: 2011-06, IEC 60079-7: 2006-07, IEC 60079-11: 2008-11, IEC 60529: 2001			
Ambient Temp.:	-40°C +40°C		With temperature class T6 and maximum surface temperature T85°C.	
	-40°C +55°C		With temperature class T5 and maximum surface temperature T100°C.	
Degree of protection:	IP66			

ENCLOSURE SELECTION BOARD :

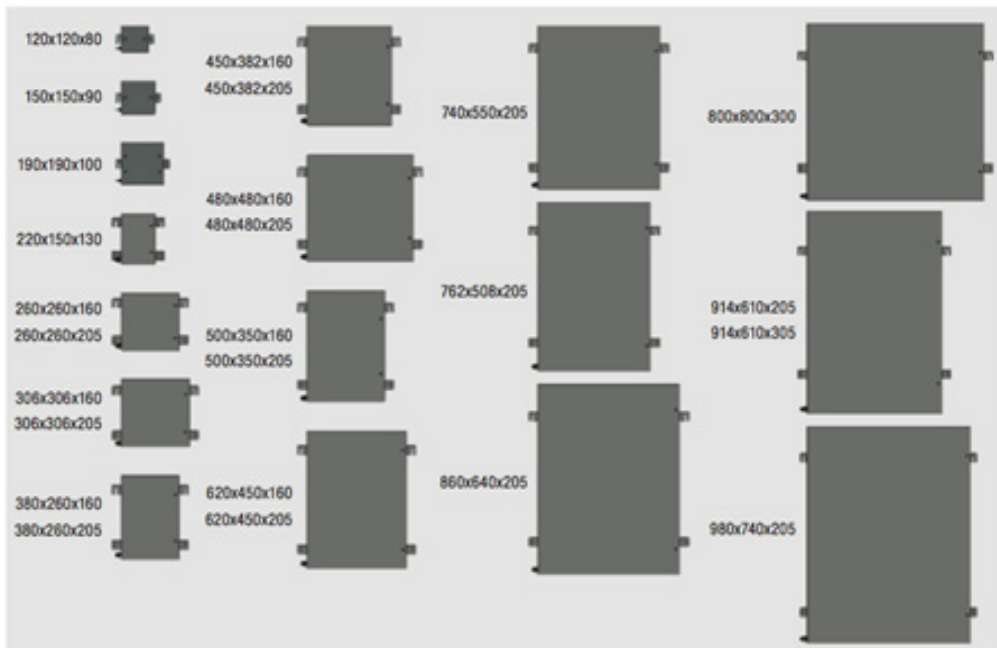
Code	Outside dimensions			Inside dimensions				Mounting		Weight kg
	A	B	C	E	F	c	s	a1	b1	
CSTB121208	120	120	80	84	60	26	1,5	-	145	
CSTB151509	150	150	90	114	90	36	1,5	-	175	
CSTB191910	190	190	100	154	130	46	1,5	-	215	
CTB221513	229	152	130	169	92	75	1,5	152	208	
CTB262616	260	260	160	224	200	100	1,5	170	316	
CTB262620	260	260	205	224	200	145	1,5	170	316	
CTB303016	306	306	160	270	246	100	1,5	203	361	
CTB303020	306	306	205	270	246	145	1,5	203	361	
CTB382616	380	260	160	344	200	100	1,5	250	316	
CTB382620	380	260	205	344	200	145	1,5	250	316	
CTB453816	450	380	160	414	322	100	1,5	305	437	
CTB453820	450	380	205	414	322	145	1,5	305	437	
CTB484816	480	480	160	444	420	100	1,5	327	535	
CTB484820	480	480	205	444	420	145	1,5	327	535	
CTB503516	500	350	160	464	290	100	1,5	350	406	
CTB503520	500	350	205	464	290	145	1,5	350	406	
CTB624516	620	450	160	584	390	100	2	450	506	
CTB624520	620	450	205	584	390	145	2	450	506	
CTB745520	740	550	205	704	490	145	2	540	606	
CTB765020	762	508	205	726	448	145	2	508	564	
CTB808030	800	800	305	725	725	245	2	510	855	
CTB866420	860	640	205	824	580	145	2	696	570	
CTB916120	914	610	205	878	550	145	2	666	559	
CTB916130	914	610	305	878	550	245	2	666	559	
CTB987420	980	740	205	944	680	145	2	700	769	

DIMENSIONAL PLAN :

Dimensions in mm



SIZE OVERVIEW :



COMPARISON BOARD OF THE CABLE :

D	01	1	2	3	4	5	6	7	8
Thread diameter									
ISO 261/965	16x1.5	20x1.5	25x1.5	32x1.5	40x1.5	50x1.5	63x1.5	75x1.5	90x1.5
Through hole	Ø17	Ø20.5	Ø25.5	Ø32.5	Ø40.5	Ø50.5	Ø63.5	Ø75.5	Ø90.5

In accordance with the current standard, holes may be drilled by Cortem or by authorized partners holding a production notification in accordance with the ATEX Directive.



APPLICATION SECTORS :



Oil refineries



Chemical and petrochemical plants



Onshore plants



Offshore plants



Low temperatures



Fuel depots



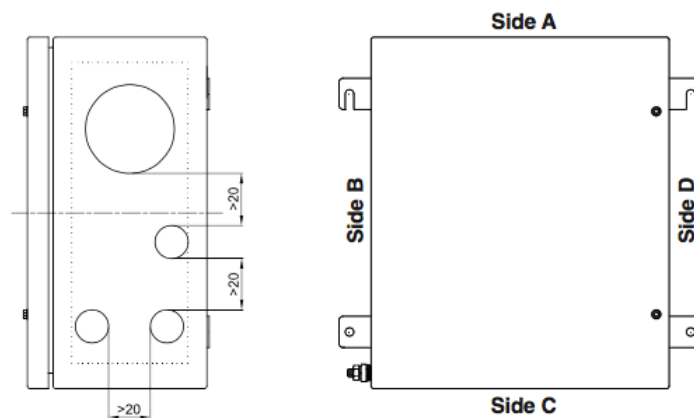
Ships and shipbuilding



100% Cortem product

SIZE OVERVIEW :

TYPE OF ENCLOSURE	HOLE DRILLING IN BODY																	
	Sides A and C									Sides B and D								
	Drilling area mm	MAXIMUM QUANTITY PER HOLE TYPE								Drilling area mm	MAXIMUM QUANTITY PER HOLE TYPE							
01		1	2	3	4	5	6	7	8		01	1	2	3	4	5	6	7
CSTB121208	70x30	2	2	2	-	-	-	-	-	100x30	3	3	3	-	-	-	-	-
CSTB151509	115x40	3	3	2	2	-	-	-	-	140x40	4	4	3	2	-	-	-	-
CSTB191910	155x50	4	4	3	2	2	-	-	-	180x50	4	4	4	3	3	-	-	-
CTB221513	105x55	5	5	2	2	1	-	-	-	165x55	8	8	3	3	3	-	-	-
CTB262616	195x80	10	10	7	4	3	3	2	-	210x80	10	10	8	4	3	3	2	-
CTB262620	215x125	15	15	14	8	6	3	2	2	195x125	15	15	12	6	6	3	2	2
CTB303016	260x80	12	12	10	9	8	3	2	2	245x80	12	12	10	9	8	3	2	2
CTB303020	260x125	18	18	17	10	8	6	3	2	245x125	18	18	15	10	8	6	3	2
CTB382616	215x80	10	10	10	7	3	3	2	2	315x80	16	16	14	11	5	4	3	3
CTB382620	215x125	15	15	12	8	6	6	2	2	315x125	24	24	21	12	10	8	3	3
CTB453816	335x80	16	16	14	6	5	4	3	2	385x80	20	20	16	7	6	5	4	3
CTB453820	335x125	24	24	21	12	10	8	3	3	335x125	30	30	24	14	12	10	4	3
CTB484816	435x80	22	22	18	8	7	6	4	3	405x80	20	20	18	8	6	5	4	3
CTB484820	435x125	32	32	26	16	13	11	4	3	405x125	30	30	26	14	12	10	4	3
CTB503516	305x80	14	14	12	5	4	4	3	2	440x80	22	22	19	8	7	6	4	4
CTB503520	305x125	21	21	18	12	10	7	3	2	440x125	33	33	27	16	14	11	4	4
CTB624516	405x80	20	20	18	7	6	5	4	3	555x80	28	28	24	10	9	7	6	5
CTB624520	405x125	30	30	26	14	12	10	4	3	550x125	39	39	36	20	18	15	6	5
CTB745520	505x125	36	36	32	16	16	13	5	4	670x125	50	50	42	24	21	17	7	6
CTB765020	465x125	33	33	29	18	14	11	5	4	690x125	50	50	44	26	22	18	7	6
CTB866420	595x125	44	44	38	22	18	15	6	5	780x125	57	57	51	28	24	20	8	6
CTB916120	565x125	41	41	35	20	18	14	6	5	830x125	60	60	53	30	26	22	9	7
CTB916130	565x224	65	65	60	40	27	21	12	9	833x228	80	80	75	48	33	27	14	12
CTB987420	700x125	50	50	44	26	22	18	7	6	840x125	63	63	59	34	28	24	9	8
CTB808030	755x225	72	72	62	39	33	27	14	12	730x225	72	72	60	39	33	27	14	12



All enclosures can be equipped with accessories of your choice and mounted on special rails attached to the internal mounting frames of the housing. The terminal blocks can be arranged in different ways, according to the customer's specifications and always within the limits allowed by the certificate. The options are vertical, horizontal, on a number of rows or on different levels using appropriate spacers.



ELECTRICAL SPECIFICATIONS:

	Standard applications	Signal circuits applications	
		T6/T75°C max. Tamb +60°C	T4/T100°C max. Tamb +85°C
Rated voltage:	1000 Vac/dc	-	-
Rated current:	312 A	1 A for exec. Ex eb 100 mA for exec. Ex ia	10 A for exec. Ex eb 100 mA for exec. Ex ia
Rated frequency:	50/60 Hz	-	-
Terminal section:	1.5 ÷ 300 mm ²	-	-

Marking	Terminal type	Description
Ex II 2GD Ex eb IIC T... Gb - Ex tb IIIC T... Db IP66	Ex e terminals only	Enclosures containing an increase in security terminals to EN 60079-7
Ex II 2GD Ex ia IIC T... Gb - Ex ia IIIC T... Db IP66	Ex e and Ex i terminals	Enclosures containing an increase in security and intrinsically safe terminals
Ex II 2GD Ex eb ia IIC T... Gb - Ex tb ia IIIC T... Db IP66	Ex i terminals only	Intrinsically safe enclosures. Terminals according to EN 60079-11. The speakers are still category 2

MAXIMUM NUMBER OF TERMINAL BOXES :

TYPE OF ENCLOSURE	MAXIMUM NUMBER OF TERMINALS HOUSED															
	TERMINAL CROSS-SECTIONAL AREA															
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
CSTB121208	8	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CSTB151509	16	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CSTB191910	28	19	16	12	-	-	-	-	-	-	-	-	-	-	-	-
CTB221513	27	19	15	11	-	-	-	-	-	-	-	-	-	-	-	-
CTB262616	2x36	2x25	2x21	2x16	2x12	2x10	7	-	-	-	-	-	-	-	-	-
CTB262620	2x36	2x25	2x21	2x16	2x12	2x10	7	-	-	-	-	-	-	-	-	-
CTB303016	2x54	2x37	2x31	2x23	2x18	2x15	11	-	-	-	-	-	-	-	-	-
CTB303020	2x54	2x37	2x31	2x23	2x18	2x15	11	11	10	9	-	-	-	-	-	-
CTB382616	2x71	2x49	2x41	2x31	2x24	2x20	15	15	13	11	-	-	-	-	-	-
CTB382620	2x71	2x49	2x41	2x31	2x24	2x20	15	15	13	11	-	-	-	-	-	-
CTB453816	2x94	2x65	2x54	2x41	2x32	2x27	2x20	2x20	2x17	2x15	-	-	-	-	-	-
CTB453820	2x94	2x65	2x54	2x41	2x32	2x27	2x20	2x20	2x17	2x15	11	10	10	8	8	6
CTB484816	3x99	3x69	3x58	3x43	2x34	2x28	2x21	2x21	2x18	2x16	-	-	-	-	-	-
CTB484820	3x99	3x69	3x58	3x43	2x34	2x28	2x21	2x21	2x18	2x16	12	10	10	9	9	6
CTB503516	2x105	2x73	2x61	2x46	2x36	2x30	2x22	2x22	2x19	2x17	-	-	-	-	-	-
CTB503520	2x105	2x73	2x61	2x46	2x36	2x30	2x22	2x22	2x19	2x17	13	11	11	10	10	6
CTB624516	3x139	3x97	3x81	3x61	2x48	2x40	2x30	2x30	2x26	2x23	-	-	-	-	-	-
CTB624520	3x139	3x97	3x81	3x61	2x48	2x40	2x30	2x30	2x26	2x23	17	15	15	13	13	9
CTB745520	4x174	4x121	4x101	4x76	3x60	3x50	3x37	3x37	3x33	3x29	22	18	18	16	16	11
CTB765020	4x182	4x127	4x106	4x79	3x63	3x53	3x39	3x39	3x34	3x30	23	19	19	17	17	12
CTB866420	5x208	5x145	5x121	5x91	5x72	5x60	4x45	4x45	3x40	3x35	26	22	22	20	20	13
CTB916120	5x225	5x157	5x131	5x98	5x78	5x65	4x49	4x49	3x43	3x38	29	24	24	21	21	14
CTB916130	5x225	5x157	5x131	5x98	5x78	5x65	4x49	4x49	3x43	3x38	29	24	24	21	21	14
CTB987420	5x242	5x169	5x141	5x106	5x84	5x70	4x52	4x52	3x46	3x41	31	26	26	23	23	16

Nominal X-sect. area (mm ²)	Current (A)	Quantity	Capacity
2,5	8	16 (di 46)	34,8%
4	11	12 (di 36)	33,3%
10	26	4 (di 13)	30,8%
Total			98,9% <100%

