

AREA DI RILEVANTE INTERESSE NAZIONALE DI BAGNOLI - COROGLIO (NA)

D.P.C.M. 15.10.2015

Interventi per la bonifica ambientale e rigenerazione urbana dell'area di Bagnoli - Coroglio

Infrastrutture, reti idriche, trasportistiche ed energetiche dell'area del
Sito di Interesse Nazionale di Bagnoli - Coroglio



Presidenza del Consiglio dei Ministri
IL COMMISSARIO STRAORDINARIO DEL GOVERNO
PER LA BONIFICA AMBIENTALE E RIGENERAZIONE URBANA
DELL'AREA DI RILEVANTE INTERESSE NAZIONALE
BAGNOLI - COROGLIO



STAZIONE APPALTANTE

INVITALIA S.p.a.: Soggetto Attuatore, in ottemperanza all'art. 33 del D.L. n. 133/2014, convertito con legge n. 164/2014, e del D.P.C.M. 15 ottobre 2015, ai fini della predisposizione ed esecuzione del Programma di Risanamento Ambientale e la Rigenerazione Urbana per il Sito di Rilevante Interesse Nazionale di Bagnoli-Coroglio

RESPONSABILE UNICO DEL PROCEDIMENTO: Ing. Daniele BENOTTI

PROGETTO DI FATTIBILITA' TECNICA ED ECONOMICA

PROGETTAZIONE GEOTECNICA, STRUTTURALE e STRADALE
Ing. Letterio SONNESSA

RELAZIONE GEOLOGICA
Dott. Geol. Vincenzo GUIDO

GRUPPO DI LAVORO INTERNO

Collaboratori:
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PROGETTAZIONE DELLA SICUREZZA
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PROGETTAZIONE OPERE STRUTTURALI
Ing. Giovanni PIAZZA

COORDINAMENTO SICUREZZA IN FASE DI PROGETTAZIONE
ai sensi D.Lgs. 81/08
Ing. Massimo FONTANA

MANDANTI



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RELAZIONE ACUSTICA
Ing. Tiziano BARUZZO

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PROGETTAZIONE OPERE A MARE E IMPIANTO TAF 3
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Geom. Salvatore DONATIello
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Ing. Giuseppe Rubino



Funzione Servizi di Ingegneria

Direzione Area Tecnica
Opere civili:
Arch. Giulia LEONI

PROGETTO DEFINITIVO

Elaborato			DATA	NOME	FIRMA
INFRASTRUTTURE IDRICHE HUB DI COROGLIO LISTA I/O			REDATTO	GIU 2023	
			VERIFICATO	GIU 2023	GV
			APPROVATO		
			DATA	GIUGNO 2023	CODICE ELABORATO
REVISIONE	DATA	AGGIORNAMENTI	SCALA	I-RC.05.02.30.01	
0	GIUGNO 2023	Emissione	N.A.		
			CODICE FILE		

IMPIANTO DI DEPURAZIONE BAGNOLI-COROGLIO

UTENZE NUOVE

ZONA NUOVO SOLLEVAMENTO A MARE	DI = 61	DO = 17	AI = 5	AO = 0
ZONA NUOVA CLASSIFICAZIONE SABBIE	DI = 32	DO = 9	AI = 4	AO = 0
ZONA HUB ESISTENTE	DI = 21	DO = 0	AI = 3	AO = 0
ZONA NUOVA GRIGLIATURA	DI = 39	DO = 13	AI = 17	AO = 0

TOTALE PUNTI IMPIANTO

TOT.	DI = 153	DO = 39	AI = 29	AO = 0
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**LA RISERVA NON È INCLUSA :
PREVEDERE 25% DI PUNTI DI RISERVA**

NOTE: I QUADRI POMPE FORNITI DA XYLEM SONO DOTATI DI UNITÀ PER LA GESTIONE E CONTROLLO DELLE POMPE E CONSENTIRÀ LA COMUNICAZIONE VERSO L'ESTERNO CON QUALSIASI SISTEMA SCADA TRAMITE PROTOCOLLO MODBUS RTU O TPC.

DOCUMENTO N. :				REV.		
				0		

POS	DESCRIZIONE ITEM	DESCRIZIONE SERVIZIO	SORGENTE	TIPO DI SEGNALE	STATO SEGNALE	FUNZIONI SCADA			RACK	SLOT	CANALE	NOTE - OSSERVAZIONI	REV
						I	R	A					
001	QMT SOLLEVAMENTO A MARE	PANEL FAULT	QMT	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
002		EXTERNAL COMMUNICATION	QMT										EXTERNAL COMMUNICATION BY MODBUS RTU O TPC
003	QG-SOLL INTERRUTTORE GENERALE	CIRCUIT BREAKER STATUS	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - CB CLOSED, OPENED - CB OPENED	00
004		CIRCUIT BREAKER FAULT	QG-SOLL-xx	DI	NO								CONTACT IS CLOSED - CB FAULT, OPENED - CB NOT FAULT
005	P104a IDROVORA SOMMERGIBILE CON GIRANTE AD ELICA	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
006		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)										EXTERNAL COMMUNICATION BY MODBUS RTU O TPC
007	P104b IDROVORA SOMMERGIBILE CON GIRANTE AD ELICA	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
008		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)										EXTERNAL COMMUNICATION BY MODBUS RTU O TPC
009	P104c IDROVORA SOMMERGIBILE CON GIRANTE AD ELICA	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
010		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)										EXTERNAL COMMUNICATION BY MODBUS RTU O TPC
011	P105a IDROVORA SOMMERGIBILE CON GIRANTE AD ELICA	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
012		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)										EXTERNAL COMMUNICATION BY MODBUS RTU O TPC
013	P105b IDROVORA SOMMERGIBILE CON GIRANTE AD ELICA	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
014		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)										EXTERNAL COMMUNICATION BY MODBUS RTU O TPC
015	P105c IDROVORA SOMMERGIBILE CON GIRANTE AD ELICA	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
016		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)										EXTERNAL COMMUNICATION BY MODBUS RTU O TPC
017	P105d IDROVORA SOMMERGIBILE CON GIRANTE AD ELICA	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
018		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)										EXTERNAL COMMUNICATION BY MODBUS RTU O TPC
019	P105e IDROVORA SOMMERGIBILE CON GIRANTE AD ELICA	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
020		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)										EXTERNAL COMMUNICATION BY MODBUS RTU O TPC
021	GR103a GRIGLIA AUTOMATICA FINE	PLC START/STOP PROCESS	QG-SOLL-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
022		PANEL FAULT	QG-SOLL-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
023		AUTOMATIC/MANUAL	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
024		RUNNING/STOPPED	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
025	GR103b GRIGLIA AUTOMATICA FINE	PLC START/STOP PROCESS	QG-SOLL-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
026		PANEL FAULT	QG-SOLL-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
027		AUTOMATIC/MANUAL	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
028		RUNNING/STOPPED	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
029	GR103c GRIGLIA AUTOMATICA FINE	PLC START/STOP PROCESS	QG-SOLL-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
030		PANEL FAULT	QG-SOLL-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
031		AUTOMATIC/MANUAL	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
032		RUNNING/STOPPED	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
033	NS103 NASTRO TRASPORTATORE	PLC START/STOP PROCESS	QG-SOLL-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
034		PANEL FAULT	QG-SOLL-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
035		AUTOMATIC/MANUAL	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
036		RUNNING/STOPPED	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
037	DS101 DISSABBIATORE A PISTA	PLC START/STOP PROCESS	QG-SOLL-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
038		MOTOR FAULT	QG-SOLL-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
039		AUTOMATIC/MANUAL	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
040		RUNNING/STOPPED	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
041	KA101 GRUPPO COMPRESSORE	PLC START/STOP PROCESS	QG-SOLL-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
042		PANEL FAULT	QG-SOLL-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
043		AUTOMATIC/MANUAL	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
044		RUNNING/STOPPED	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
045	CS101 CLASSIFICATORE SABBIA A COCLEA	PLC START/STOP PROCESS	QG-SOLL-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
046		MOTOR FAULT	QG-SOLL-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
047		AUTOMATIC/MANUAL	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
048		RUNNING/STOPPED	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
049	CA102 GRU A PONTE BITRAVE	PLC START/STOP PROCESS	QG-SOLL-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
050		MOTOR FAULT	QG-SOLL-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
051		AUTOMATIC/MANUAL	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00

052		RUNNING/STOPPED	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
053	CA103 GRU A PONTE MONOTRAVE	PLC START/STOP PROCESS	QG-SOLL-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
054		MOTOR FAULT	QG-SOLL-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
055		AUTOMATIC/MANUAL	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
056		RUNNING/STOPPED	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00

057	PM102a PARATOIA MOTORIZZATA	PLC START/STOP PROCESS	QG-SOLL-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
058		MOTOR FAULT	QG-SOLL-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
059		AUTOMATIC/MANUAL	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
060		RUNNING/STOPPED	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
061	PM102b PARATOIA MOTORIZZATA	PLC START/STOP PROCESS	QG-SOLL-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
062		MOTOR FAULT	QG-SOLL-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
063		AUTOMATIC/MANUAL	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
064		RUNNING/STOPPED	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
065	PM102c PARATOIA MOTORIZZATA	PLC START/STOP PROCESS	QG-SOLL-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
066		MOTOR FAULT	QG-SOLL-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
067		AUTOMATIC/MANUAL	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
068		RUNNING/STOPPED	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
069	PM103a PARATOIA MOTORIZZATA	PLC START/STOP PROCESS	QG-SOLL-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
070		MOTOR FAULT	QG-SOLL-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
071		AUTOMATIC/MANUAL	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
072		RUNNING/STOPPED	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
073	PM103b PARATOIA MOTORIZZATA	PLC START/STOP PROCESS	QG-SOLL-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
074		MOTOR FAULT	QG-SOLL-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
075		AUTOMATIC/MANUAL	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
076		RUNNING/STOPPED	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
077	PM103c PARATOIA MOTORIZZATA	PLC START/STOP PROCESS	QG-SOLL-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
078		MOTOR FAULT	QG-SOLL-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
079		AUTOMATIC/MANUAL	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
080		RUNNING/STOPPED	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
081	SCRUBBER DOPPIO STADIO SERIE STDS	PLC START/STOP PROCESS	QG-SOLL-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
082		PANEL FAULT	QG-SOLL-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
083		AUTOMATIC/MANUAL	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
084		RUNNING/STOPPED	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
085	VENTILATORE E CABINA AFONICA	PLC START/STOP PROCESS	QG-SOLL-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
086		MOTOR FAULT	QG-SOLL-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
087		AUTOMATIC/MANUAL	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
088		RUNNING/STOPPED	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
089	LTU104 MISURATORE DI LIVELLO RADAR	WATER LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX M	00
090	ΔL103a MISURATORE DI LIVELLO DIFFERENZIALE	DIFFERENTIAL LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX M	00
091	ΔL103b MISURATORE DI LIVELLO DIFFERENZIALE	DIFFERENTIAL LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX M	00
092	LTU105 MISURATORE DI LIVELLO RADAR	WATER LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX M	00
093	LTU106 MISURATORE DI LIVELLO RADAR	WATER LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX M	00

DOCUMENT No.:											REV.	
											00	
											DI = 61	
											DO = 17	
											AI = 5	

POS	DESCRIZIONE ITEM	DESCRIZIONE SERVIZIO	SORGENTE	TIPO DI SEGNALE	STATO SEGNALE	FUNZIONI SCADA			BACK	SLOT	CANALE	NOTE - OSSERVAZIONI	REV
						I	R	A					
094	QG-CS INTERRUTTORE GENERALE	CIRCUIT BREAKER STATUS	QG-CS-xx	DI	NO							CONTACT IS CLOSED - CB CLOSED, OPENED - CB OPENED	00
095		CIRCUIT BREAKER FAULT	QG-CS-xx	DI	NO								CONTACT IS CLOSED - CB FAULT, OPENED - CB NOT FAULT
096	P106a ELETTROPOMPA SOMMERGIBILE CENTRIFUGA CON GIRANTE BIPOLARE	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
097		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)										EXTERNAL COMMUNICATION BY MODBUS RTU O TPC
098	P106b ELETTROPOMPA SOMMERGIBILE CENTRIFUGA CON GIRANTE BIPOLARE	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
099		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)										EXTERNAL COMMUNICATION BY MODBUS RTU O TPC
100	P106c ELETTROPOMPA SOMMERGIBILE CENTRIFUGA CON GIRANTE BIPOLARE	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
101		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)										EXTERNAL COMMUNICATION BY MODBUS RTU O TPC
102	CS102a CLASSIFICATORE SABBIA A COCLEA	PLC START/STOP PROCESS	QG-CS-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
103		MOTOR FAULT	QG-CS-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
104		AUTOMATIC/MANUAL	QG-CS-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
105		RUNNING/STOPPED	QG-CS-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
106	CS102b CLASSIFICATORE SABBIA A COCLEA	PLC START/STOP PROCESS	QG-CS-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
107		MOTOR FAULT	QG-CS-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
108		AUTOMATIC/MANUAL	QG-CS-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
109		RUNNING/STOPPED	QG-CS-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
110	CS102c CLASSIFICATORE SABBIA A COCLEA	PLC START/STOP PROCESS	QG-CS-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
111		MOTOR FAULT	QG-CS-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
112		AUTOMATIC/MANUAL	QG-CS-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
113		RUNNING/STOPPED	QG-CS-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
114	CS101 CLASSIFICATORE SABBIA A COCLEA	PLC START/STOP PROCESS	QG-SOLL-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
115		MOTOR FAULT	QG-SOLL-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
116		AUTOMATIC/MANUAL	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
117		RUNNING/STOPPED	QG-SOLL-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
118	PM101a PARATOIA MOTORIZZATA	PLC START/STOP PROCESS	QG-CS-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
119		MOTOR FAULT	QG-CS-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
120		AUTOMATIC/MANUAL	QG-CS-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
121		RUNNING/STOPPED	QG-CS-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
122	PM101b PARATOIA MOTORIZZATA	PLC START/STOP PROCESS	QG-CS-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
123		MOTOR FAULT	QG-CS-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
124		AUTOMATIC/MANUAL	QG-CS-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
125		RUNNING/STOPPED	QG-CS-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
126	PM101c PARATOIA MOTORIZZATA	PLC START/STOP PROCESS	QG-CS-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
127		MOTOR FAULT	QG-CS-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
128		AUTOMATIC/MANUAL	QG-CS-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
129		RUNNING/STOPPED	QG-CS-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
130	PM101d PARATOIA MOTORIZZATA	PLC START/STOP PROCESS	QG-CS-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
131		MOTOR FAULT	QG-CS-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
132		AUTOMATIC/MANUAL	QG-CS-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
133		RUNNING/STOPPED	QG-CS-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
134	ARGANO A FUNE 10T	PLC START/STOP PROCESS	QG-CS-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
135		MOTOR FAULT	QG-CS-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
136		AUTOMATIC/MANUAL	QG-CS-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
137		RUNNING/STOPPED	QG-CS-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
138	LTU104 MISURATORE DI LIVELLO RADAR	WATER LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX M	00
139	CM101 CAMPIONATORE E ANALIZZATORE MULTIPARAMETRICO	MULTIPARAMETRIC	CAMPO	AI	4-20 mA							FULL SCALE PARAMETERS = XX	00
140	MC104 MISURATORE DI LIVELLO E PORTATA	WATER LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX M	00
		FLOW RATE	CAMPO	AI	4-20 mA								FULL SCALE = XX M ³ /H

POS	DESCRIZIONE ITEM	DESCRIZIONE SERVIZIO	SORGENTE	TIPO DI SEGNALE	STATO SEGNALE	FUNZIONI SCADA			RACK	SLOT	CANALE	NOTE - OSSERVAZIONI	REV
						I	R	A					
141	QMT CABINA DI TRASFORMAZIONE	PANEL FAULT	QMT	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
		EXTERNAL COMMUNICATION	QMT									EXTERNAL COMMUNICATION BY MODBUS RTU O TPC	00
142	QP1 INTERRUTTORE GENERALE	CIRCUIT BREAKER STATUS	QP1-xx	DI	NO							CONTACT IS CLOSED - CB CLOSED, OPENED - CB OPENED	00
143		CIRCUIT BREAKER FAULT	QP1-xx	DI	NO							CONTACT IS CLOSED - CB FAULT, OPENED - CB NOT FAULT	00
144	QP2 INTERRUTTORE GENERALE	CIRCUIT BREAKER STATUS	QP2-xx	DI	NO							CONTACT IS CLOSED - CB CLOSED, OPENED - CB OPENED	00
145		CIRCUIT BREAKER FAULT	QP2-xx	DI	NO							CONTACT IS CLOSED - CB FAULT, OPENED - CB NOT FAULT	00
146	QP3 INTERRUTTORE GENERALE	CIRCUIT BREAKER STATUS	QP3-xx	DI	NO							CONTACT IS CLOSED - CB CLOSED, OPENED - CB OPENED	00
147		CIRCUIT BREAKER FAULT	QP3-xx	DI	NO							CONTACT IS CLOSED - CB FAULT, OPENED - CB NOT FAULT	00
148	QP4 INTERRUTTORE GENERALE	CIRCUIT BREAKER STATUS	QP4-xx	DI	NO							CONTACT IS CLOSED - CB CLOSED, OPENED - CB OPENED	00
149		CIRCUIT BREAKER FAULT	QP4-xx	DI	NO							CONTACT IS CLOSED - CB FAULT, OPENED - CB NOT FAULT	00
150	P101a IDROVORA SOMMERGIBILE CON GIRANTE AD ELICA	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
151		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)									EXTERNAL COMMUNICATION BY MODBUS RTU O TPC	00
152	P101b IDROVORA SOMMERGIBILE CON GIRANTE AD ELICA	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
153		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)									EXTERNAL COMMUNICATION BY MODBUS RTU O TPC	00
154	P101c IDROVORA SOMMERGIBILE CON GIRANTE AD ELICA	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
155		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)									EXTERNAL COMMUNICATION BY MODBUS RTU O TPC	00
156	P101d IDROVORA SOMMERGIBILE CON GIRANTE AD ELICA	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
157		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)									EXTERNAL COMMUNICATION BY MODBUS RTU O TPC	00
158	P101e IDROVORA SOMMERGIBILE CON GIRANTE AD ELICA	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
159		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)									EXTERNAL COMMUNICATION BY MODBUS RTU O TPC	00
160	P102a ELETTRROPOMPA SOMMERGIBILE CON GIRANTE TRICANALE ORIZZONTALE	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
161		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)									EXTERNAL COMMUNICATION BY MODBUS RTU O TPC	00
162	P102b ELETTRROPOMPA SOMMERGIBILE CON GIRANTE TRICANALE ORIZZONTALE	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
163		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)									EXTERNAL COMMUNICATION BY MODBUS RTU O TPC	00
164	P102c ELETTRROPOMPA SOMMERGIBILE CON GIRANTE TRICANALE ORIZZONTALE	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
165		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)									EXTERNAL COMMUNICATION BY MODBUS RTU O TPC	00
166	P102d ELETTRROPOMPA SOMMERGIBILE CON GIRANTE TRICANALE ORIZZONTALE	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
167		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)									EXTERNAL COMMUNICATION BY MODBUS RTU O TPC	00
168	P103a ELETTRROPOMPA SOMMERGIBILE CON GIRANTE TRICANALE	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
169		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)									EXTERNAL COMMUNICATION BY MODBUS RTU O TPC	00
170	P103b ELETTRROPOMPA SOMMERGIBILE CON GIRANTE TRICANALE	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
171		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)									EXTERNAL COMMUNICATION BY MODBUS RTU O TPC	00
172	P103c ELETTRROPOMPA SOMMERGIBILE CON GIRANTE TRICANALE	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
173		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)									EXTERNAL COMMUNICATION BY MODBUS RTU O TPC	00
174	P103d ELETTRROPOMPA SOMMERGIBILE CON GIRANTE TRICANALE	PANEL FAULT	QPOMPE (XYLEM)	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
175		EXTERNAL COMMUNICATION	QPOMPE (XYLEM)									EXTERNAL COMMUNICATION BY MODBUS RTU O TPC	00
176	LTU107 MISURATORE DI LIVELLO RADAR	WATER LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX M	00
177	LTU102 MISURATORE DI LIVELLO RADAR	WATER LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX M	00
178	LTU106 MISURATORE DI LIVELLO RADAR	WATER LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX M	00

DOCUMENT No.:

DI =	21
DO =	0
AI =	3

REV.

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POS	DESCRIZIONE ITEM	DESCRIZIONE SERVIZIO	SORGENTE	TIPO DI SEGNALE	STATO SEGNALE	FUNZIONI SCADA			RACK	SLOT	CANALE	NOTE - OSSERVAZIONI	REV
						I	R	A					
179	GR101a SGRIGLIATORE OLEODINAMICO POSTAZIONE FISSA	PLC START/STOP PROCESS	QG-GR-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
180		PANEL FAULT	QG-GR-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
181		AUTOMATIC/MANUAL	QG-GR-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
182		RUNNING/STOPPED	QG-GR-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
183	GR101b SGRIGLIATORE OLEODINAMICO POSTAZIONE FISSA	PLC START/STOP PROCESS	QG-GR-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
184		PANEL FAULT	QG-GR-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
185		AUTOMATIC/MANUAL	QG-GR-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
186		RUNNING/STOPPED	QG-GR-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
187	GR102a SGRIGLIATORE OLEODINAMICO POSTAZIONE SEMOVENTE	PLC START/STOP PROCESS	QG-GR-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
188		PANEL FAULT	QG-GR-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
189		AUTOMATIC/MANUAL	QG-GR-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
190		RUNNING/STOPPED	QG-GR-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
191	GR102b SGRIGLIATORE OLEODINAMICO POSTAZIONE SEMOVENTE	PLC START/STOP PROCESS	QG-GR-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
192		PANEL FAULT	QG-GR-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
193		AUTOMATIC/MANUAL	QG-GR-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
194		RUNNING/STOPPED	QG-GR-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
195	NS101a NASTRO TRASPORTELEVATORE	PLC START/STOP PROCESS	QG-GR-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
196		PANEL FAULT	QG-GR-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
197		AUTOMATIC/MANUAL	QG-GR-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
198		RUNNING/STOPPED	QG-GR-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
199	NS101b NASTRO TRASPORTELEVATORE	PLC START/STOP PROCESS	QG-GR-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
200		PANEL FAULT	QG-GR-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
201		AUTOMATIC/MANUAL	QG-GR-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
202		RUNNING/STOPPED	QG-GR-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
203	NS102a NASTRO TRASPORTELEVATORE	PLC START/STOP PROCESS	QG-GR-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
204		PANEL FAULT	QG-GR-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
205		AUTOMATIC/MANUAL	QG-GR-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
206		RUNNING/STOPPED	QG-GR-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
207	NS102b NASTRO TRASPORTELEVATORE	PLC START/STOP PROCESS	QG-GR-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
208		PANEL FAULT	QG-GR-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
209		AUTOMATIC/MANUAL	QG-GR-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
210		RUNNING/STOPPED	QG-GR-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
211	CA101 GRU A PONTE BITRAVE	PLC START/STOP PROCESS	QG-GR-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
212		MOTOR FAULT	QG-GR-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
213		AUTOMATIC/MANUAL	QG-GR-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
214		RUNNING/STOPPED	QG-GR-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
215	BN101 BENNA BIVALENTE ELETTROIDRAULICA	PLC START/STOP PROCESS	QG-GR-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
216		MOTOR FAULT	QG-GR-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
217		AUTOMATIC/MANUAL	QG-GR-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
218		RUNNING/STOPPED	QG-GR-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
219	SCRUBBER FLOTTANTE SERIE SFP (ACIDO)	PLC START/STOP PROCESS	QG-GR-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
220		PANEL FAULT	QG-GR-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
221		AUTOMATIC/MANUAL	QG-GR-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
222		RUNNING/STOPPED	QG-GR-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
223	SCRUBBER FLOTTANTE SERIE SFP (BASIC/OSSIDANTE)	PLC START/STOP PROCESS	QG-GR-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
224		PANEL FAULT	QG-GR-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
225		AUTOMATIC/MANUAL	QG-GR-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
226		RUNNING/STOPPED	QG-GR-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
227	VENTILATORE E CABINA AFONICA	PLC START/STOP PROCESS	QG-GR-xx	DO	NO							CONTACT IS CLOSED - START PROCESS, OPENED - STOP PROCESS	00
228		MOTOR FAULT	QG-GR-xx	DI	NC							CONTACT IS CLOSED - HEALTHY, OPENED - TRIPPED	00
229		AUTOMATIC/MANUAL	QG-GR-xx	DI	NO							CONTACT IS CLOSED - AUTOMATIC, OPENED - MANUAL	00
230		RUNNING/STOPPED	QG-GR-xx	DI	NO							CONTACT IS CLOSED - RUNNING, OPENED - STOPPED	00
231	MC101a MISURATORE DI LIVELLO E PORTATA	WATER LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX M	00
		FLOW RATE	CAMPO	AI	4-20 mA								FULL SCALE = XX M ³ /H
232	MC101b MISURATORE DI LIVELLO E PORTATA	WATER LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX M	00
		FLOW RATE	CAMPO	AI	4-20 mA								FULL SCALE = XX M ³ /H
233	MC102 MISURATORE DI LIVELLO E PORTATA	WATER LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX M	00
		FLOW RATE	CAMPO	AI	4-20 mA								FULL SCALE = XX M ³ /H
234	MC103 MISURATORE DI LIVELLO E PORTATA	WATER LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX M	00
		FLOW RATE	CAMPO	AI	4-20 mA								FULL SCALE = XX M ³ /H
235	AL101a MISURATORE DI LIVELLO DIFFERENZIALE	DIFFERENTIAL LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX M	00
236	AL101b MISURATORE DI LIVELLO DIFFERENZIALE	DIFFERENTIAL LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX M	00
237	AL102a MISURATORE DI LIVELLO DIFFERENZIALE	DIFFERENTIAL LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX M	001
238	AL102c MISURATORE DI LIVELLO DIFFERENZIALE	DIFFERENTIAL LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX M	002
239	LTU103 MISURATORE DI LIVELLO RADAR	WATER LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX M	00
240	MP1 MISURATORE DI PORTATA	FLOW RATE	CAMPO	AI	4-20 mA							FULL SCALE = XX M	00
241	MP2 MISURATORE DI PORTATA	FLOW RATE	CAMPO	AI	4-20 mA							FULL SCALE = XX M	00
242	M3 MISURATORE DI PRESSIONE	PRESSURE LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX Pa	00
243	M4 MISURATORE DI PRESSIONE	PRESSURE LEVEL	CAMPO	AI	4-20 mA							FULL SCALE = XX Pa	00

DOCUMENT No.:

DI = 39
DO = 13
AI = 17

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