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نگهداشت و افزایش تولید میدان نفتی بینک
فعالیت های رو زمینی در بسته های کاری تحت الارض

ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات
برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک

DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD



شماره پیمان:

053 - 073 - 9184

پروژه

BK

بسته کاری

W007S

صادرکننده

PEDCO

تسهیلات

110

رشته

IN

نوع مدرک

DT

سریال

0010

نسخه

D00

شماره صفحه: 1 از 21

طرح نگهداشت و افزایش تولید 27 مخزن

DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD

نگهداشت و افزایش تولید میدان نفتی بینک

D00	SEP.2022	IFC	P.Hajjisadeghi	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	Client Approval

Class: 2

Client Doc. Number: F9Z-707980

status: IDC: Inter-Discipline Check

IFC: Issued For Comment

IFA: Issued For Approval

AFD: Approved For Design

AFC: Approved For Construction

AFP: Approved For Purchase

AFQ: Approved For Quotation

IFI: Issued For Information

AB-R: As-Built for CLIENT Review

AB-A: As-Built -Approved



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شماره پیمان:

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نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
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DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD

شماره پیمان:

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REFERENCE DOCUMENTS :

F&G LOCATION LAYOUT - EXTENSION OF BINAK BC MANIFOLD BK-W007S-PEDCO-110-IN-PY-0005

FIRE AND GAS DETECTION DESIGN CRITERIA BK-SSGRL-PEDCO-110-IN-DC-0001

SPECIFICATION FOR FIRE & GAS SENSOR AND DEVICES BK-GNRAL-PEDCO-000-IN-SP-0009

GENERAL NOTE

- 1 Refer to latest version of reference documents.



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DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD

شماره پیمان: 053 - 073 - 9184	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 4 از 21
	BK	W007S	PEDCO	110	IN	DT	0010	D00	

GENERAL NOTES:

- 1 - Vendor shall identify and detail any deviation from the present Data Sheet
- 2- All equipments/detectors listed in this document shall be supplied with related calibration and test equipments.
- 3 - S.S. Name olate including project description to be provided.



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DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD

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شماره صفحه: 6 از 21

DATASHEET FOR HORN

GENERAL		
1	Tag No.	See Next Page
2	Ambient Temperature Min / Max (°C)	-5 ~ 50 (°C)
3	Design Relative Humidity Min / Max (%)	0~ 100 (%)
4	Atmospheric Condition	Non-Acidic, Harsh and Dusty
5	Area Classification	See Next Page
6	F&G Location Layout No.	See Next Page
7	Location of Installation	See Next Page
DETECTOR		
8	System Type	Conventional
9	Function	Local Alarm with 2 modes: non-continuous for flammable and toxic gas detection • Continuous for fire detection
10	Sound Pressure Level	120 dB (At 1 meter) (VTA)
11	Service	Hydrocarbon
12	Adjustable Sound Intensity	Yes
13	Frequency Range	VTA
14	Multiple Terminal Connection	Required
15	No. of Selectable Tones	Minimum 2
16	Power Supply	24 VDC
17	System Wiring	10 Core x 1.5 (for Horn combined with Blue/ Red Beacon)(Note 9)
18	Power Consumption	VTA (Note 4)
19	Electrical Connection	M25 x 1.5(Note 9)
20	Body and Housing Material	Epoxy coated die cast aluminum (copper free).
21	Installation	Fix
22	Mounting	Bracket (Note 2)
23	Mounting Accessories Material	316 SS
24	Degree of Protection	IP 65
25	Explosion Protection	Eexd
26	Weather Proof and Dust Proof	Yes
27	Safety Integrity Level	Non SIL
28	Certificate	IEC 60529 (IP), ATEX , BSI EN54-3
29	Nameplates Material	Stainless Steel
30	Manufacturer	VTA
31	Model No.	VTA

Notes :

1. VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
2. Vendor shall specify weight, color and dimensions of devices and accessories.
3. The value of End Of Line (EOL) resistor shall be suggested by vendor.
4. Mounting Accessories, sunshade and cable gland are included in vendor scope of supply.
5. 2 different tones one for Flammable/ Toxic gas detection (non-continuous) and one for fire detection (continuous). Each tone shall be activated by receiving dedicated signal.
6. All devices shall have stainless steel tag plate with their tag no engraved on it which is fixed on the body.
7. Low power consumption to be considered. Quiescence power consumption and alarm power consumption to be specified by vendor.
8. Horn alarms shall have a range of at least 1.5 km in still air.
9. Horn and related beacon(Red) shall be installed on common stand. Eex JB for connectig 5*1.5 mm2 cable to be considered by vendor for signal distribution.



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شماره پیمان:

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نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
D00	0010	DT	IN	120	PEDCO	W007S	BK

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FLAME DETECTOR LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	SERVICE	REMARKS
1	HN-2101 (Note 9 at page 6)	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Outdoor	IP 65	Unclassified	Hydrocarbon	
2	HN-2201 (Note 9 at page 6)	Battery Building	BK-W007S-PEDCO-110-IN-PY-0005 (3 OF 4)	Outdoor	IP 65	Unclassified	Hydrocarbon	
3	HN-2301 (Note 9 at page 6)	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Outdoor	IP 65	Unclassified	Hydrocarbon	
9								
10								
11								
12								
13	Calibration and test device for Horn							NOTE 1

1. Calibration and test devices for Horn to be advise by vendor.



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DATASHEET FOR BEACON

GENERAL	1	Tag No.	See Next Page	
	2	Ambient Temperature Min / Max (°C)	-5 ~ 50 (°C)	
	3	Design Relative Humidity Min / Max (%)	0~ 100 (%)	
	4	Atmospheric Condition	Non-Acidic, Harsh and Dusty	
	5	Area Classification	See Next Page	
	6	F&G Location Layout No.	See Next Page	
	7	Location of Installation	See Next Page	
DETECTOR	8	System Type	Conventional/ Addressable	
	9	Service	See Next Page	
	10	Function	• Red for fire and flammable gas detection • Blue for Toxic Gas Detector(if applicable)	
	11	Flash Rate	60 FPM/1HZ (VTA)	
	12	Colour	See Next Page	
	13	Lens Type	Glass	
	14	Field of View	360°	
	15	Tube type	Xenon	
	16	Effective Intensity	200 cd to 1000 cd candela (VTA)	
	17	Power Supply	24 VDC (VTA)	
	18	System Wiring	10 Core x 1.5 (for Horn combined with Blue/ Red Beacon) (Note 8)	
	19	Power Consumption	VTA (Note 4)	
	20	Electrical Connection	M20 x 1.5	
	21	Body and Housing Material	Epoxy coated die cast aluminum	
	22	Installation	Fix	
	23	Mounting	Bracket (Note 2)	
	24	Mounting Accessories Material	316 SS	
	25	Degree of Protection	See Next Page	
	26	Explosion Protection	See Next Page	
	27	Weather Proof and Dust Proof	Yes	
	28	Safety Integrity Level	Non SIL	
	29	Certificate	IEC 60529 (IP), ATEX , BSI EN54-3	
	30	Body Color	• Red for fire and flammable gas detection • Red for Toxic Gas Detector(if applicable)	
		31	Nameplates Material	Stainless Steel
		32	Manufacturer	VTA
		33	Model No.	VTA

Notes :

- VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
- Vendor shall specify weight, color and dimensions of devices and accessories.
- The value of End Of Line (EOL) resistor shall be suggested by vendor.
- Mounting Accessories, sunshade and cable gland are included in vendor scope of supply.
- 2 different colors to be selected for lights of beacon:
• Red for fire and flammable gas detection
• Blue for Toxic Gas Detector(if applicable)
- All devices shall have stainless steel tag plate with their tag no engraved on it which is fixed on the body.
- Low power consumption to be considered. Quiescence power consumption and alarm power consumption to be specified by vendor.
- Horn and related beacon(Red) shall be installed on common stand. Eex JB for connectig 5*1.5 mm2 cable to be considered by vendor for signal distribution.



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شماره پیمان:

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BEACON LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	COLOR	SERVICE	REMARKS
1	BR-2101	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Outdoor	IP 65	Unclassified	Red	Hydrocarbon	
2	BR-2102	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	Red	Hydrocarbon	
3	BR-2201	Battery Building	BK-W007S-PEDCO-110-IN-PY-0005 (3 OF 4)	Outdoor	IP 65	Unclassified	Red	Hydrocarbon	
4	BR-2301	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Outdoor	IP 65	Unclassified	Red	Hydrocarbon	
5	BR-2302	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	Red	Hydrocarbon	
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28	calibration and test device for Beacons								NOTE 1

1. Calibration and test devices for Beacons to be advise by vendor.



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شماره صفحه: 10 از 21

DATASHEET FOR HYDROGEN GAS DETECTOR

GENERAL		
1	Tag No.	See Next Page
2	Ambient Temperature Min / Max (°C)	-5 ~ 50 (°C)
3	Design Relative Humidity Min / Max (%)	0- 100 (%)
4	Atmospheric Condition	Non-Acidic, Harsh and Dusty
5	Area Classification	See Next Page
6	F&G Location Layout No.	See Next Page
7	Location of Installation	See Next Page
DETECTOR		
8	System Type	Conventional
9	Function	Hydrogen Gas Detector
10	Service	See Next Page
11	Sensor Type	Electrochemical Type (H2S)
12	Measuring Range	0 - 100% LEL
13	Accuracy	<+/-2 ppm
14	Life Time	Typical 2 to 5 Years
15	Response time	< 5 Seconds
16	Alarm Range	High Level :5% LEL , High High Level:10% LEL
17	Repeatability	VTA
18	Output Signal	Analogue 4-20mA
19	Power Supply	24 VDC (VTA)
20	System Wiring	2 Core x 1.5
21	Power Consumption	VTA (Note 8)
22	Electrical Connection	M20 x 1.5
23	Body and Housing Material	Epoxy coated die cast aluminum
24	Installation	Fix
25	Mounting	Bracket (Note 5)
26	Mounting Accessories Material	316 SS
27	Degree of Protection	See Next Page
28	Explosion Protection	See Next Page
29	Weather Proof and Dust Proof	Yes
30	Safety Integrity Level	Non SIL
31	Certificate	Calibration, SIL, IEC 60529 (IP), ATEX , MATERIAL
32	Nameplates Material	Stainless Steel
33	Manufacturer	VTA
34	Model No.	VTA

Notes :

- VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
- The gas detectors shall still work after an extended period in operation ,without any low concentration of the specific gas ,none at all.
- The response of a detector shall be clearly visible from the outside by a flashing high-emitting(LED) of sufficient brightness.
- The detector shall be designed in such a way that ambient conditions, humidity, temperature and wind can not affect the sensor signal.
- Vendor scope of supply includes: Sensor, Transmitter, All Mounting Accessories, cable glands, other accessories (including splash guard, Calibration Kit, etc)
- Calibration kit contained CALIBRATION GAS, CALIBRATION TOOL, TEST MAGNETS (if required) shall be considered.
- All devices shall have stainless steel tag plate with their tag no engraved on it which is fixed on the body.
- Low power consumption to be considered. Quiescence power consumption and alarm power consumption to be specified by vendor.
- HGDs shall be capable to connect to Smart Hart Communication.



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DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD

شماره پیمان:

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شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
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HYDROGEN GAS DETECTOR LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	SERVICE	REMARKS
1	HGD-2201	Battery Building	BK-W007S-PEDCO-110-IN-PY-0005 (3 OF 4)	Indoor	IP 54	Eexd 'Zone1, IIC T4	Hydroen (related to the batteries)	
2	HGD-2301	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Eexd 'Zone1, IIC T4	Hydroen (related to the batteries)	
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20	calibration and test device for HGDs							NOTE 1

1. Calibration and test devices for HGDs to be advise by vendor.



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شماره پیمان:

نسخه	سریال	نوع مدارک	رشته	تمهيلات	مادرکننده	بسته کاری	پروژه
D00	0010	DT	IN	120	PEDCO	GCS	BK

شماره صفحه: 21 از 12

DATASHEET FOR MANUAL ALARM CALL POINT

		Tag No.	See Next Page
GENERAL	1	Tag No.	See Next Page
	2	Ambient Temperature Min / Max (°C)	-5 ~ 50 (°C)
	3	Design Relative Humidity Min / Max (%)	0- 100 (%)
	4	Atmospheric Condition	Non-Acidic, Harsh and Dusty
	5	Area Classification	See Next Page
	6	F&G Location Layout No.	See Next Page
	7	Location of Installation	See Next Page
DETECTOR	8	Function	Manual Alarm
	9	Service	See Next Page
	10	Glass Type	Resettable type
	11	Switch Type	Single pole, Normally Closed , Hermetically Sealed (equipped with opening key for test, maintenance and reset)
	12	Detector Type	Conventional/Addressable
	13	Alarm Indicator	High Intensity Red LED
	14	Output Signal	Voltage Free Contact (24VDC,5A)
	15	System Wiring	2 Core
	16	Test Key	Required
	17	Power Supply	24 VDC (VTA)
	18	Electrical Connection	M20 x 1.5
	19	Body and Housing Material	Epoxy coated die cast aluminum
	20	Colour	Red With Black Marking Colour
	21	End of Line Resistor	Yes
	22	Mounting	Bracket (Note 2)
	23	Mounting Accessories Material	316 SS
	24	Degree of Protection	See Next Page
	25	Explosion Protection	See Next Page
	26	Safety Integrity Level	Non SIL
	27	Certificate	IEC 60529 (IP), ATEX , BSI EN54-11
	28	Nameplates Material	Stainless Steel
	29	Manufacturer	VTA
30	Model No.	VTA	

Notes :

1. VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
2. Mounting Accessories, cable gland, sunshade are included in vendor scope of supply.
3. All devices shall have stainless steel tag plate with their tag no engraved on it which is fixed on the body.



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نگهداشت و افزایش تولید میدان نفتی بینک
فعالیت های رو زمینی در بسته های کاری تحت الارض

ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات
برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک



DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD

شماره پیمان:

053 - 073 - 9184

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
D00	0010	DT	IN	120	PEDCO	W007S	BK

شماره صفحه: 21 از 13

MANUAL ALARM CALL POINT LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	SERVICE	REMARKS
1	MAC-2101	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Outdoor	IP 65	Unclassified	Hydrocarbon	Conventional
2	MAC-2102	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	Hydrocarbon	Conventional
3	MAC-2103	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	Hydrocarbon	Conventional
4	MAC-2104	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Outdoor	IP 65	Unclassified	Hydrocarbon	Conventional
5	MAC-2201	Battery Building	BK-W007S-PEDCO-110-IN-PY-0005 (3 OF 4)	Indoor	IP 54	Unclassified	Hydrocarbon	Conventional
6	MAC-2202	Battery Building	BK-W007S-PEDCO-110-IN-PY-0005 (3 OF 4)	Indoor	IP 54	Unclassified	Hydrocarbon	Conventional
7	MAC-2301	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	Hydrocarbon	Conventional
8	MAC-2302	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	Hydrocarbon	Conventional
9	MAC-2303	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	Hydrocarbon	Conventional
10	MAC-2304	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Outdoor	IP 65	Unclassified	Hydrocarbon	Conventional
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27								
28	calibration and test device for MACs							NOTE 1

1. Calibration and test devices for MACs to be advise by vendor.



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تجهیزات و افزایش تولید میدان نفتی بینک
فعالیت های رو زمینی در بسته های کاری تحت الارض

ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تمهيلات
برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک



DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD

053 - 073 - 9184

شماره پیمان:

شماره پیمان:	پروژه	بسته کاری	مادرکننده	تمهيلات	رشته	نوع مدارک	سریال	نسخه
	BK	W007S	PEDCO	120	IN	DT	0010	D00

شماره صفحه: 21 از 14

DATASHEET FOR LINEAR HEAT DETECTOR

		1	Tag No.	See Next Page
GENERAL	2	Ambient Temperature Min / Max (°C)	-5 ~ 50 (°C)	
	3	Design Relative Humidity Min / Max (%)	0- 100 (%)	
	4	Atmospheric Condition	Non-Acidic, Harsh and Dusty	
	5	Area Classification	See Next Page	
	6	F&G Location Layout No.	See Next Page	
	7	Location of Installation	See Next Page	
	DETECTOR	8	Detector Type	Addressable
9		Function	Heat Detection	
10		Service	See Next Page	
11		Sensor Type	Two Twisted Steel Conductors with Heat Sensitive Polymer Coated	
12		Outer Sheath Material	PVC or Chemical Resistant Nylon (VTA)	
13		Overall Diameter (mm)	3.5 ~ 4.5 mm (VTA)	
14		Alarm Temperature	85°C	
15		Temperature Rise	8 °C Perminute	
16		Cable Length	15 m	
17		Output Signal	Digital 0-24VDC	
18		Power Supply	24 VDC (VTA)	
19		System Wiring	2 Core x 1.5	
20		Electrical Connection	M20 x 1.5	
21		Body and Housing Material	Epoxy coated die cast aluminum	
22		Installation	Fix	
23		Mounting	Electrical Transformer Surface Mounted	
24		Mounting Accessories Material	VTA	
25		Degree of Protection	See Next Page	
26		Explosion Protection	See Next Page	
27		Weather Proof and Dust Proof	Yes	
28		Safety Integrity Level	Non SIL	
29		Certificate	IEC 60529 (IP), ATEX , MATERIAL	
30		Nameplates Material	Stainless Steel	
		31	Manufacturer	VTA
	32	Model No.	VTA	

Notes :

1. VTA : Vendor To Advise. VTC : Vendor To Confirm N/A : Not Applicable
2. Mounting Accessories, shelter and cable gland are included in vendor scope of supply.
3. All devices shall have stainless steel tag plate with their tag no. engraved on it which is fixed on the body.
4. All required mounting & Termination accessories to be provided by vendor.



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ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات
برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک



DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD

شماره پیمان:

053 - 073 - 9184

پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدارک	سریال	نسخه
BK	W007S	PEDCO	120	IN	DT	0010	D00

شماره صفحه: 21 از 15

LINEAR HEAT DETECTOR LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	SERVICE	REMARKS
1	LHD-2301	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Outdoor	IP 65	Unclassified	Hydrocarbon	
2	LHD-2302	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Outdoor	IP 65	Unclassified	Hydrocarbon	
3	LHD-2303	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Outdoor	IP 65	Unclassified	Hydrocarbon	
4	LHD-2304	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Outdoor	IP 65	Unclassified	Hydrocarbon	
5	LHD-2305	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Outdoor	IP 65	Unclassified	Hydrocarbon	
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27	calibration and test device for LHDs							NOTE 1

1. Calibration and test devices for LHDs to be advise by vendor.



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053 - 073 - 9184

تجهیزات و افزایش تولید میدان نفتی بینک
فعالیت های و زمینی در بسته های کاری تحت الارض

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DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD



شماره صفحه: 21 از 16

شماره پیمان:

پروژه

بسته کاری

مادرکننده

تهیلات

رشته

نوع مدرک

سریال

نسخه

BK

W007S

PEDCO

120

IN

DT

0010

D00

DATASHEET FOR SMOKE DETECTOR/HEAT & SMOKE DETECTOR

GENERAL			
1	Tag No.		See Next Page
2	Ambient Temperature Min / Max (°C)		-5 ~ 50 (°C)
3	Design Relative Humidity Min / Max (%)		0- 100 (%)
4	Atmospheric Condition		Non-Acidic
5	Area Classification		See Next Page
6	F&G Location Layout No.		See Next Page
7	Location of Installation		See Next Page
DETECTOR			
8	Detector Type		Addressable
9	Function		Smoke Detector
10	Service		False floor / Ceiling smoke detection
11	Sensor Type		Smoke Sensing Element : Optical type(scattered-light type or transmitted-light type detectors)
12	Rate of Rise(ROR)		Yes (Temperature Rise: 8 °C Perminute)
13	Built-in-Test		Manual
14	Area Coverage		50 m ²
15	Operating Temperature		-10 °C to 90 °C
16	Alarm Set point		VTC
17	Output Signal		VTA
18	Power Supply		24 VDC (VTA)
19	System Wiring		2 Core x 1.5
20	Contact Type & Rating		24 VDC, DPDT
21	Power Consumption		VTA (Note 7)
22	Electrical Connection		M20 x 1.5
23	Body and Housing Material		Epoxy coated die cast aluminum
24	Installation		Fix
25	Sampling Frequency		VTA
26	Mounting		Under false floor/ Ceiling (Note 6)
27	Mounting Accessories Material		VTA
28	Degree of Protection		See Next Page
29	Explosion Protection		See Next Page
30	Weather Proof and Dust Proof		Yes
31	Safety Integrity Level		Non SIL
32	Certificate		IEC 60529 (IP), ATEX , MATERIAL
33	Sensitivity Adjustable Required		Yes
34	Indicator		2 LED Indication for local display
35	Nameplates Material		Stainless Steel
36	Manufacturer		VTA
37	Model No.		VTA

Notes :

1. VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
2. Detectors shall have an inherently stable operation with built in compensation being impaired by dust, dirt or humidity.
3. All circuitry must be protected against electrical transients and electromagnetic interferences.
4. Faulty zone wiring shall not damage the detector.
5. A Built in barrier shall prevent entry of insects in the sensors.
6. Mounting Accessories, cable gland, end of line resistor are included in vendor scope of supply.
7. Low power consumption to be considered. Quiescence power consumption and alarm power consumption to be specified by vendor.



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نگهداشت و افزایش تولید میدان نفتی بینک
فعالیت های رو زمینی در بسته های کاری تحت الارض

ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تهیلات
برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک



DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD

شماره پیمان: 053 - 073 - 9184	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تهیلات	رشته	نوع مدارک	سریال	نسخه	شماره صفحه: 17 از 21
		BK	W007S	PEDCO	120	IN	DT	0010	D00	

SMOKE DETECTOR LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	REMARKS
1	SD-2101	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
2	SD-2102	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
3	SD-2103	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
4	SD-2104	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
5	SD-2111	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
6	SD-2112	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
7	SD-2113	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
8	SD-2114	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
9	SD-2121	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
10	SD-2201	Battery Building	BK-W007S-PEDCO-110-IN-PY-0005 (3 OF 4)	Indoor	IP 54	Unclassified	
11	SD-2301	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	
12	SD-2302	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	
13	SD-2303	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	
14	SD-2311	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	
15	SD-2312	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	
16	SD-2313	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	
17	SD-2314	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	
18	SD-2315	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	
19	SD-2316	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	
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33							
34							
35							
36			calibration and test device for SDs				NOTE 1

1. Calibration and test devices for SDs to be advise by vendor.



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تجهیزات و افزایش تولید میدان نفتی بینک
فعالیت های و زمینی در بسته های کاری تحت الارض

ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تمهيلات
برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک



DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD

053 - 073 - 9184

شماره پیمان:

شماره پیمان:	نسخه	سریال	نوع مدرک	رشته	تمهيلات	مادرکننده	بسته کاری	پروژه
	D00	0010	DT	IN	120	PEDCO	W007S	BK

شماره صفحه: 21 از 18

DATASHEET FOR BELL

		1	Tag No.	See Next Page
GENERAL	2	Ambient Temperature Min / Max (°C)	-5 ~ 50 (°C)	
	3	Design Relative Humidity Min / Max (%)	0~ 100 (%)	
	4	Atmospheric Condition	Non-Acidic, Harsh and Dusty	
	5	Area Classification	See Next Page	
	6	F&G Location Layout No.	See Next Page	
	7	Location of Installation	See Next Page	
	DETECTOR	8	System Type	See Next Page
9		Sound Pressure Level	80 dB (At 1 meter) (VTA)	
10		Service	See Next Page	
11		Adjustable Sound Intensity	Yes	
12		Adjustable Sound In Intensity	Yes	
13		No. of Selectable Tones	Minimum 2	
14		Power Supply	24 VDC (VTA)	
15		System Wiring	2 Core x 1.5	
16		Power Consumption	VTA (Note 4)	
17		Electrical Connection	M25 x 1.5	
18		Body and Housing Material	Epoxy coated die cast aluminum	
19		Installation	Fix	
20		Mounting	Yoke (Note 2)	
21		Mounting Accessories Material	316 SS	
22		Degree of Protection	See Next Page	
23		Explosion Protection	See Next Page	
24		Weather Proof and Dust Proof	Yes	
25		Safety Integrity Level	Non SIL	
26		Certificate	IEC 60529 (IP), ATEX , BSI EN54-3	
27		Nameplates Material	Stainless Steel	
28		Manufacturer	VTA	
29		Model No.	VTA	

Notes :

1. VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
2. Vendor shall specify weight, color and dimentions of devices and accessories.
3. Mounting Accessories, sunshade and cable gland are included in vendor scope of supply.
4. All devices shall have stainless steel tag plate with their tag no engraved on it which is fixed on the body.
5. Low power consumption to be considered. Quiescence power consumption and alarm power consumption to be specified by vendor.



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فعالیت های روزمینی در بسته های کاری تحت الارض

ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تهیلات
برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک



DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD

شماره پیمان:

053 - 073 - 9184


نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D00	0010	DT	IN	120	PEDCO	W007S	BK

شماره صفحه: 19 از 21

BELL LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	SERVICE	REMARKS
1	BL-2101	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	Hydrocarbon	
2	BL-2302	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	Hydrocarbon	
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15								
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18								
19	calibration and test device for Bells							NOTE 1



1. Calibration and test devices for Bells to be advise by vendor.

 NISOC شماره پیمان: 053 - 073 - 9184	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض ساخت موقعیت چاه، تأسیسات سر چاهی، خطوط جریانی، تسهیلات DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD								 
	شماره پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدارک	سریال	نسخه	شماره صفحه: 21 از 20
	BK	W007S	PEDCO	120	IN	DT	0010	D00	

DATASHEET FOR SMOKE DETECTOR/HEAT & SMOKE DETECTOR			
GENERAL	1	Tag No.	See Next Page
	2	Recorded Ambient Temperature Min / Max (°C)	-2 - 52 (°C)
	3	Relative Humidity @ Min recorded temp. / @ Max recorded temp. (%)	13- 92 (%)
	4	Atmospheric Condition	Non-Acidic
	5	Area Classification	Zone1, IIB T4
	6	F&G Location Layout No.	See Next Page
	7	Location of Installation	See Next Page
DETECTOR	8	Detector Type	Addressable
	9	Function	Heat Detector
	10	Service	False floor / Ceiling heat detection
	11	Sensor Type	Heat Sensing Element: Fusible Alloy Silver Contact
	12	Rate of Rise(ROR)	Yes (Temperature Rise: 8 °C Perminute)
	13	Built-in-Test	Manual
	14	Area Coverage	50 m ²
	15	Operating Temperature	-10 °C to 90 °C
	16	Alarm Set point	VTC
	17	Output Signal	VTA
	18	Power Supply	24 VDC (VTA)
	19	System Wiring	2 Core x 1.5
	20	Contact Type & Rating	24 VDC, DPDT
	21	Power Consumption	VTA (Note 7)
	22	Electrical Connection	M20 x 1.5
	23	Body and Housing Material	Epoxy coated die cast aluminum
	24	Installation	Fix
	25	Sampling Frequency	VTA
	26	Mounting	Under false floor/ Ceiling (Note 6)
	27	Mounting Accessories Material	VTA
	28	Degree of Protection	See Next Page
	29	Explosion Protection	See Next Page
	30	Weather Proof and Dust Proof	Yes
	31	Safety Integrity Level	Non SIL
	32	Certificate	IEC 60529 (IP), ATEX , MATERIAL
	33	Sensitivity Adjustable Required	Yes
	34	Indicator	2 LED Indication for local display
	35	Nameplates Material	Stainless Steel
	36	Manufacturer	VTA
	37	Model No.	VTA

Notes :

1. VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
2. Detectors shall have an inherently stable operation with built in compensation being impaired by dust, dirt or humidity.
3. All circuitry must be protected against electrical transients and electromagnetic interferences.
4. Faulty zone wiring shall not damage the detector.
5. A Built in barrier shall prevent entry of insects in the sensors.
6. Mounting Accessories, cable gland, end of line resistor are included in vendor scope of supply.
7. Low power consumption to be considered.

 <p>NISOC</p>	<p>نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک</p>								
	DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD								
شماره پیمان:	شماره پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 21 از 21
053 - 073 - 9184	BK	W007S	PEDCO	120	IN	DT	0010	D00	

HEAT DETECTOR LIST								
ITEM	TAG NO.	LOCATION	LAYOUT	INDOOR / OUTDOOR	INGRESS PROTECTION	ELECTRICAL PROTECTION	REMARKS	
1	HD-2101	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	INDOOR	IP 54	Unclassified		
2	HD-2201	Battery Building	BK-W007S-PEDCO-110-IN-PY-0005 (3 OF 4)	INDOOR	IP 54	Eexd 'Zone1, IIC T4		
3	HD-22301	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	INDOOR	IP 54	Eexd 'Zone1, IIC T4		
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23	calibration and test device for HDs						NOTE 1	

1. Calibration and test devices for SDs & SD/HDs to be advise by vendor.