

# ئىرىت قىدىتى <sub>ايرا</sub>ن





#### **NISOC**

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

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

 نسخه
 سریال
 نوع مدر ک
 رشته
 تسهیلات
 صادر کننده
 بیته کاری
 پروژه
 شماره پیمان:

 053 - 073 - 9184
 BK
 W007S
 PEDCO
 110
 IN
 DT
 0010
 D01

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

Class: 1		Client Doc. Number: F9Z-707980							
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	Client Approval			
D00	SEP.2022	IFC	P.Hajisadeghi	M.Fakharian	M.Mehrshad				
D01	JAN.2023	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad				

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



053 - 073 - 9184

### نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحتالارض

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

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





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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 برقرسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک

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

صادر کننده بسته کاری تسهيلات رشته نسخه نوع مدرك سريال پروژه BK W007S PEDCO 110 IN DT 0010 D01

# شماره صفحه: 3 از 21

#### **REFERENCE DOCUMENTS:**

شماره پیمان:

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

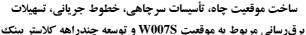
FIRE AND GAS DETECTION DESIGN CRITERIA BK-SSGRL-PEDCO-110-IN-DC-0001

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

#### **GENERAL NOTE**

1 Refer to latest version of reference documents.







#### برقرسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک **NISOC** DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD شماره پیمان: پروژه صادر کننده نسخه بسته کاری تسهيلات نوع مدرك سريال شماره صفحه: 4 از 21 053 - 073 - 9184 PEDCO BK W007S 110 IN DT 0010 D01 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.



#### NICOC

#### تگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحتالارض





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

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

 نسخه
 سریال
 نوع مدرک
 رشته
 تسهالات
 صادر کننده
 بسته کاری
 پروژه
 شماره پیمان:

 BK
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شماره صفحه: 5 از 21

#### **CONTENTS ITEMS PAGES** DATASHEET FOR HORN 6 HORN DETECTOR LIST DATASHEET FOR BEACON **BEACON LIST** 9 DATASHEET FOR HYDROGEN GAS DETECTOR 10 HYDROGEN GAS DETECTOR LIST 11 DATASHEET FOR MANUAL ALARM CALL POINT 12 MANUAL ALARM CALL POINT LIST 13 DATASHEET FOR LINEAR HEAT DETECTOR 14 LINEAR HEAT DETECTOR LIST 15 DATASHEET FOR SMOKE DETECTOR 16 SMOKE DETECTOR LIST 17 DATASHEET FOR BELL 18 BELL LIST 19 DATASHEET FOR HEAT DETECTOR 20 HEAT DETECTOR LIST 21



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نماره پیمان:

پروژه

BK

بسته کاری

W007S

#### نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحتالارض

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

صادر کننده

PEDCO

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

تسهيلات

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شماره صفحه: 6 از 21

	$\overline{Z}$	DOI	
		DATASHEET FOR HO	ORN
	1	Tag No.	See Next Page
	2	Ambient Temprature Min / Max (°C)	-5 ~ 50 (°C)
با	3	Design Relative Humidity Min / Max (%)	0~ 100 (%)
GENERAL	4	Atmospheric Condition	Non-Acidic, Harsh and Dusty
9	5	Area Classification	See Next Page
	6	F&G Location Layout No.	See Next Page
	7	Location of Installation	See Next Page
	8	System Type	Addressable
	9	Function	Local Alarm with 2 modes: • non-continuous for flammable and toxic gas low alarm detection • Continuous for fire detection and also flammable/toxic gas high alarm detection
	10	Sound Pressure Level	120 dB (At 1 meter) (VTC)
	11	Service	Hydrocarbon
	12	Adjustable Sound Intensity	Yes
	13	Frequency Range	500 ~ 1000 Hz (VTC)
	14	Multiple Terminal Connection	Required
	15	No. of Selectable Tones	Minimum 2
	16	Power Supply	24 VDC
8	17	System Wiring	10 Core x 1.5 (for Horn combined with Blue/ Red Beacon)(Note 9)
DETECTOR	18	Power Consumption	VTA (Note 4)
DE	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	Unclassified
	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
HASE	30	Manufacturer	will be finalized later

#### Notes :

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Model No.

- VTA: Vendor To Advice. VTC : Vendor To Confirm N/A: Not Applicable
- 2. Vendor shall specify weight, color and dimentions 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.
- 5. 2 different tones one for Flammable/ Toxic gas detection (non-continuous) and one for fire detection (continuous). Each tone shall be activated by receiveing 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.

will be finalized later

- 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.



## IRGAN



#### NISOC

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

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

شماره پیمان: پروژه بسته کاری صادر کننده تسهيلات نوع مدرك نسخه رشته شماره صفحه: 7 از 21 053 - 073 - 9184 BK W007S PEDCO 120 IN DT 0010 D01

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	ce for Horn				NOTE 1	



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نماره پیمان:

#### نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحتالارض

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

DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD سريال نوع مدرك رشته پروژه بسته کاری صادر کننده تسهيلات BK PEDCO IN DT 0010 W007S 120 D01



ز 21	18	صفحه:	شماره
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	<del></del>	DATASHEET FOR BE.	ACON				
	1	Tag No.	See Next Page				
	2	Ambient Temprature Min / Max (°C)	-5 ~ 50 (°C)				
AL.	3	Design Relative Humidity Min / Max (%)	0~ 100 (%)				
GENERAL	4	Atmospheric Condition	Non-Acidic, Harsh and Dusty				
g	5	Area Classification	See Next Page				
	6	F&G Location Layout No.	See Next Page				
	7	Location of Installation	See Next Page				
	8	System Type	Addressable				
	9	Service	See Next Page				
	10	Function	Red for fire detection     Yellow for flammable gas detection     Blue for Toxic Gas Detector(if applicable)				
	11	Flash Rate	60 FPW1HZ (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)				
œ	18	System Wiring	10 Core x 1.5 (for Horn combined with Blue/ Red Beacon) (Note 8)				
DETECTOR	19	Power Consumption	VTA (Note 4)				
DET	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				
CHA	32	Manufacturer	will be finalized later				
PURCHA SE DATA	33	Model No.	will be finalized later				

- 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. 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.

- Yellow for flammable gas detection
   Blue for Toxic Gas Detector(if applicable)

- 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 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.



## HIRGAN



#### NISOC

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

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

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

			1	BEACON LIS	ST .				
EM	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	
1	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	
5 <u>D</u> 0	BY-2201	Battery Building	BK-W007S-PEDCO- 110-IN-PY-0005 (3 OF 4)	Outdoor	IP 65	Unclassified	Yellow	Hydrocarbon	
7 <u>D</u>	BY-2301	Switchgear Building	BK-W007S-PEDCO- 110-IN-PY-0005 (4 OF 4)	Outdoor	IP 65	Unclassified	Yellow	Hydrocarbon	
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نماره پیمان:

پروژه

BK

بسته کاری

W007S

#### نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحتالارض

#### ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برقرساني مربوط به موقعيت W007S و توسعه چندراهه کلاستر بينک

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

تسهيلات

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شماره صفحه: 10 از 21

		DATASHEET FOR HYDROGEN GA	AS DETECTOR					
	1	Tag No.	See Next Page					
	2	Ambient Temprature Min / Max (°C)	-5 ~ 50 (°C)					
-	3	Design Relative Humidity Min / Max (%)	0~ 100 (%)					
GENERAL	4	Atmospheric Condition	Non-Acidic, Harsh and Dusty					
GE	5	Area Classification	See Next Page					
	6	F&G Location Layout No.	See Next Page					
	7	Location of Installation	See Next Page					
	8	System Type	Addressable					
	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	Analouge 4-20mA					
N.	19	Power Supply	24 VDC (VTA)					
DETECTOR	20	System Wiring	2 Core x 1.5					
DE	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					
ASE A	33	Manufacturer	will be finalized later					
seaperseases : DATA	34	Model No.	will be finalized later					

- VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable

- 1. V1A: Vendor 10 Advice.
  1. V1C: Vendor 10 Continum N/A: Not Applicable
  2. The gas detectors shall still work after an extended period in operation, without any low concentration of the specific gas ,none at all.
  3. The response of a detector shall be clearly visible from the outside by a flashing ligh-emitting(LED) of sufficient brightness.
  4. The detector shall be designed in such a way that ambient conditions, humidity, temperature and wind can not affect the sensor signal.
  5. Vendor scope of supply includes: Sensor, Transmitter, All Mounting Accessories, cable glands, other accessories (including splash guard, Calibration Kit, etc)
  6. Calibration kit contained CALIBRATION GAS, CALIBRATION TOOL, TEST MAGNETS (if required) shall be considered.

- 7. All devices shall have stainless steel tag plate with their tag no engraved on it which is fixed on the body.
   8. Low power consumption to be considered. Quiescence power consumption and alarm power consumption to be specified by vendor.
- 9. HGDs shall be capable to connect to Smart Hart Communication.



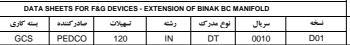
053 - 073 - 9184

شماره پیمان:

BK

#### نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحتالارض

#### ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برقرسانی مربوط به موقعیت W0007S و توسعه چندراهه کلاستر بینک





شماره صفحه: 11 از 21



HYDROGEN GAS DETECTOR LIST								
TEM	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)	
3								
4								
5								
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12								
13								
14								
15								
16								
17								
18								
19								
20			calibration and test device	for HGDs				NOTE 1



053 - 073 - 9184

پروژه

GCS

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#### نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحتالارض

### ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD

120

PEDCO

برقرسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک

IN



D01



شماره صفحه: 12 از 21

		DATASHEET FOR MANUAL A	LARM CALL POINT					
	1	Tag No.	See Next Page					
	2	Ambient Temprature Min / Max (°C)	-5 ~ 50 (°C)					
ب	3	Design Relative Humidity Min / Max (%)	0~ 100 (%)					
GENERAL	4	Atmospheric Condition	Non-Acidic, Harsh and Dusty					
5	5	Area Classification	See Next Page					
	6	F&G Location Layout No.	See Next Page					
	7	Location of Installation	See Next Page					
	8	Function	Manual Alarm					
	9	Service	See Next Page					
	10	Glass Type	Resettable type					
	11	Switch Type	Single pole, Normally Closed <sub>3</sub> Hermetically Sealed (equipped with opening key for test, maintenance and reset)					
	12	Detector Type	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					
JR	17	Power Supply	24 VDC (VTA)					
DETECTOR	18	Electrical Connection	M20 x 1.5					
DE	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)					

316 SS

See Next Page

Unclassified

Stainless Steel

will be finalized later

will be finalized later

IEC 60529 (IP), ATEX , BSI EN54-11

D01

PURCHASE DATA

23 Mounting Accessories Material

Degree of Protection

Safety Integrity Level Certificate

25 Explosion Protection

28 Nameplates Material

Manufacturer

24

26

27

30

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.



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





053 - 073 - 9184

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

DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD تسهيلات 
 صادر کننده
 بسته کاری

 W007S
 PEDCO
 ا نوع مدر ک رشته IN DT پروژه نماره پیمان∶

	053 - 073 - 918	شماره پیمان: 	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدر ک	سريال	نسخه D01	13 از 21	شماره صفحه: 3
	033 - 073 - 710	4	BK	W007S	PEDCO	120	IN	DT	0010	DOT		
					MA	ANUAL ALARM	CALL POINT	LIST				
ITEM	TAG NO.	L	OCATION		LAYOUT Indoor / Outdoor		INGRESS PROTECTION	ELECTRICAL PROTECTION	SERVICE	REIV KS		
1	MAC-2101	Cont	trol Building			PEDCO-110-IN- 5 (2 OF 4)	Outo	loor	IP 65	Unclassified	Hydrocarbon	Addressable
2	MAC-2102	Control Building				PEDCO-110-IN- 5 (2 OF 4)	Indo	oor	IP 54	Unclassified	Hydrocarbon	Addressable
3	MAC-2103	Cont	trol Building			PEDCO-110-IN- 5 (2 OF 4)	Indo	oor	IP 54	Unclassified	Hydrocarbon	Addressable
4	MAC-2104	Cont	trol Building			PEDCO-110-IN- 5 (2 OF 4)	Outo	loor	IP 65	Unclassified	Hydrocarbon	Addressable
5	MAC-2201	Batte	ery Building			PEDCO-110-IN- 5 (3 OF 4)	Indo	oor	IP 54	Unclassified	Hydrocarbon	Addressable
6	MAC-2202	Batte	ery Building			PEDCO-110-IN- 5 (3 OF 4)	D01 Outc	loor	IP 54	Unclassified	Hydrocarbon	Addressable
7	MAC-2301	Switch	ngear Buildir	ng		PEDCO-110-IN- 5 (4 OF 4)	Indo	oor	IP 54	Unclassified	Hydrocarbon	Addressable
8	MAC-2302	Switch	ngear Buildir	ng		PEDCO-110-IN- 5 (4 OF 4)	D01 Outo	loor	IP 54	Unclassified	Hydrocarbon	Addressable
9	MAC-2303	Switch	ngear Buildir	ng		PEDCO-110-IN- 5 (4 OF 4)	Indo	oor	IP 54	Unclassified	Hydrocarbon	Addressable
10	MAC-2304	Switchgear Building				PEDCO-110-IN- 5 (4 OF 4)	Outo	loor	IP 65	Unclassified	Hydrocarbon	Addressable
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28					calibration	n and test device	for MACs					NOTE 1
												<del></del>



053 - 073 - 9184

#### نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحتالارض

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







شماره صفحه: 14 از 21

		DATASHEET FOR LINEAR I	HEAT DETECTOR			
	1	Tag No.	See Next Page			
	2	Ambient Temprature Min / Max (°C)	-5 ~ 50 (°C)			
ᆛ	3	Design Relative Humidity Min / Max (%)	0~ 100 (%)			
GENERAL	4	Atmospheric Condition	Non-Acidic, Harsh and Dusty			
ō	5	Area Classification	See Next Page			
	6	F&G Location Layout No.	See Next Page			
	7	Location of Installation	See Next Page			
	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 Lentgh	15 m			
	17	Output Signal	Digital 0-24VDC			
S. S.	18	Power Supply	24 VDC (VTA)			
DETECTOR	19	System Wiring	2 Core x 1.5			
ä	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			

Stainless Steel

will be finalized later

# PURCHA SE DATA

Nameplates Material

30

32 Model No.

- Notes:

  1. VTA: Vendor To Advice. 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.



پروژه

#### نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحتالارض

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





DAT	TA SHEETS FO	OR F&G DEVICES - EXT	ENSION OF B	INAK BC MAN	IIFOLD	
بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
W007S	PEDCO	120	IN	DT	0010	D01

053 - 073 - 9184		شماره پیمان: •			<del>'                                    </del>		نوع مدرک	سريال	نسخه	شماره صفحه: 15 از 21		
	U53 - U73 - 918	+	BK	W007S	PEDCO	120	IN	DT	0010	D01		
						m=====	T	TOD : : 5				
						LINEAR HEA			INGRESS	ELECTRICAL	T	T
ITEM	TAG NO.		LOCATION				Indoor	/ Outdoor	PROTECTION	N PROTECTION	SERVICE	REMARKS
1	LHD-2301	Swit	tchgear Build	ling	PY-00	-PEDCO-110-IN- 005 (4 OF 4)	Ou	tdoor	IP 65	Unclassified	d Hydrocarbon	
2	LHD-2302	Switchgear Building			PY-00	-PEDCO-110-IN- 005 (4 OF 4)	Ou	tdoor	IP 65	Unclassified	d Hydrocarbon	
3	LHD-2303	Swit	tchgear Build	ling	PY-00	-PEDCO-110-IN- 005 (4 OF 4)	Ou	tdoor	IP 65	Unclassified	d Hydrocarbon	
4	LHD-2304	Swit	tchgear Build	ling	PY-00	-PEDCO-110-IN- 005 (4 OF 4)	Ou	tdoor	IP 65	Unclassified	d Hydrocarbon	
5	LHD-2305	Swit	tchgear Build	ling		-PEDCO-110-IN- 005 (4 OF 4)	Ou	tdoor	IP 65	Unclassified	d Hydrocarbon	
6												
7												
8												
9												
10												
11												
12												
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16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27					coli	ibration and test de	avice for L	IDs				NOTE 1
	ation and test devi	ces for LHDs to	be advise by	vendor.	Cal		2.100 IOI LI	.20				NOIL
			•									



053 - 073 - 9184

پروژه

BK

#### نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحتالارض

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

120

PEDCO

W007S



DT

0010

IN



D01



شماره صفحه: 16 از 21

1	, J-	Tag No.	See Next Page
-	+	Ambient Temprature Min / Max (°C)	-5 ~ 50 (°C)
	+	Design Relative Humidity Min / Max (%)	0~100 (%)
KAL			
GENERAL CENERAL	+	Atmospheric Condition	Non-Acidic
	+	Area Classification	See Next Page
6	+	F&G Location Layout No.	See Next Page
7	+	Location of Installation	See Next Page
8	3 [	Detector Type	Addressable
9	) F	Function	Smoke Detector
1	0 8	Service	False floor / Ceiling smoke detection
1	1 5	Sensor Type	Smoke Sensing Element : Optical type(scattered-light type or transmitted-light type detectors)
1	2 F	Rate of Rise(ROR)	Yes (Temperature Rise: 8 °C Perminute )
1	з Е	Built-in-Test	Manual
1	4	Area Coverage	50 m²
1	5	Operating Temprature	-10 °C to 60 °C Dol
1	6	Alarm Set point	vтс
1	7	Output Signal	VTA
1	8 1	Power Supply	24 VDC (VTA)
1	9 5	System Wiring	2 Core x 1.5
2	0	Contact Type & Rating	24 VDC, DPDT
5 2	1 F	Power Consumption	VTA (Note 7)
2	2	Electrical Connection	M20 x 1.5
2	3 E	Body and Housing Material	Epoxy coated die cast aluminum
2	4 I	Installation	Fix
2	5	Sampling Frequency	VTA
2	6 1	Mounting	Under false floor/ Ceiling (Note 6)
2	7 1	Mounting Accessories Material	VTA
2	8 [	Degree of Protection	See Next Page
2	9 E	Explosion Protection	See Next Page
3	0 \	Weather Proof and Dust Proof	Yes
3	1 5	Safety Integrity Level	Non SIL
3	2 (	Certificate	IEC 60529 (IP), ATEX , MATERIAL
3	3 8	Sensitivity Adjustable Required	Yes
3	D01	Smoke detector sensitivity	m = 0.11 ÷ 0.13 dB/m (pursuant to EN 14604:2005)
		Indicator	2 LED Indication for local display and also a Remote Indicator for False Ceiling / False Floor application
3	6 1	Nameplates Material	Stainless Steel
<b>4</b> 3	7 1	Manufacturer	vill be finalized later
3 3	8	Model No.	(but will be finalized later
circuity m ulty zone v suilt in bar	all h ust l virin rier	Advice. VTC: Vendor To Confirm N/A: Not Applicable have an inherently stable operation with built in compensation being impaired by dust, dirt or huming be protected against electrical trasients and electromagnetic interferences. g shall not damage the detector. shall prevent entry of insects in the sensors. sories, cable gland, end of line resistor are included in vendor scope of supply.	dity.



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

#### نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحتالارض

### ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات

برقرسانی مربوط به موقعیت  $\mathbf{W}007\mathbf{S}$  و توسعه چندراهه کلاستر بینک

DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD نسخه سريال نوع مدرك رشته تبهيلات صادر كننده بسته کاری پروژه شماره پیمان:



					5,11,101,122,101,011,14	0 DE 11020 EXTENDION 01	B	025			
	050 070 0404	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه	شماره صفحه: 17 از 21
	053 - 073 – 9184		BK	W007S	PEDCO	120	IN	DT	0010	D01	
					SMO	OKE DETECTOR LIST					
ITEM	TAG NO.		LOCATION		LAYO	рит	Indoor /	Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	REMARKS
1	SD-2101	Co	ntrol Building	ļ	BK-W007S-PEDCO-11	0-IN-PY-0005 (2 OF 4)	Inc	loor	IP 54	Unclassifie	d
2	SD-2102	Co	ntrol Building	J	BK-W007S-PEDCO-11	0-IN-PY-0005 (2 OF 4)	Ind	loor	IP 54	Unclassifie	d
3	SD-2103	Co	ntrol Building	I	BK-W007S-PEDCO-11	0-IN-PY-0005 (2 OF 4)	Ind	loor	IP 54	Unclassifie	d
4	SD-2104	Co	ntrol Building	J	BK-W007S-PEDCO-11	0-IN-PY-0005 (2 OF 4)	Ind	loor	IP 54	Unclassifie	d
5	SD-2111	Co	ntrol Building	J	BK-W007S-PEDCO-11	0-IN-PY-0005 (2 OF 4)	Ind	loor	IP 54	Unclassifie	d
6	SD-2112	Co	ntrol Building	J	BK-W007S-PEDCO-11	0-IN-PY-0005 (2 OF 4)	Ind	loor	IP 54	Unclassifie	d
7	SD-2113	Co	ntrol Building	J	BK-W007S-PEDCO-11	0-IN-PY-0005 (2 OF 4)	Ind	loor	IP 54	Unclassifie	d
8	SD-2114	Co	ntrol Building	J	BK-W007S-PEDCO-11	0-IN-PY-0005 (2 OF 4)	Ind	loor	IP 54	Unclassifie	d
9	SD-2121	Co	ntrol Building	I	BK-W007S-PEDCO-11	0-IN-PY-0005 (2 OF 4)	Ind	loor	IP 54	Unclassifie	d
10	SD-2201	Ва	ttery Building	ı	BK-W007S-PEDCO-11	0-IN-PY-0005 (3 OF 4)	Ind	loor	IP 54	Unclassifie	d
11	SD-2301	Swite	chgear Buildir	ng	BK-W007S-PEDCO-11	0-IN-PY-0005 (4 OF 4)	Ind	loor	IP 54	Unclassifie	d
12	SD-2302	Swite	chgear Buildir	ng	BK-W007S-PEDCO-11	0-IN-PY-0005 (4 OF 4)	Ind	loor	IP 54	Unclassifie	d
13	SD-2303	Swite	chgear Buildir	ng	BK-W007S-PEDCO-11	0-IN-PY-0005 (4 OF 4)	Ind	loor	IP 54	Unclassifie	d
14	SD-2311	Swite	chgear Buildir	ng	BK-W007S-PEDCO-11	0-IN-PY-0005 (4 OF 4)	Ind	loor	IP 54	Unclassifie	d
15	SD-2312	Swite	chgear Buildir	ng	BK-W007S-PEDCO-11	0-IN-PY-0005 (4 OF 4)	Ind	loor	IP 54	Unclassifie	d
16	SD-2313	Swite	chgear Buildir	ng	BK-W007S-PEDCO-11	0-IN-PY-0005 (4 OF 4)	Ind	loor	IP 54	Unclassifie	d
17	SD-2314	Swite	chgear Buildir	ng	BK-W007S-PEDCO-11	0-IN-PY-0005 (4 OF 4)	Ind	loor	IP 54	Unclassifie	d
18	SD-2315	Swite	chgear Buildir	ng	BK-W007S-PEDCO-11	0-IN-PY-0005 (4 OF 4)	Ind	loor	IP 54	Unclassifie	d
19	SD-2316	Swite	chgear Buildir	ng	BK-W007S-PEDCO-11	0-IN-PY-0005 (4 OF 4)	Ind	loor	IP 54	Unclassifie	d
20 <sub>D01</sub>	SD-2105	Co	ntrol Building	l	BK-W007S-PEDCO-11	0-IN-PY-0005 (2 OF 4)	Ind	loor	IP 54	Unclassifie	d
21 <sub>D01</sub>	SD-2106	Co	ntrol Building	l	BK-W007S-PEDCO-11	0-IN-PY-0005 (2 OF 4)	Ind	loor	IP 54	Unclassifie	d
22 <sub>D01</sub>	SD-2122	Co	ntrol Building	l	BK-W007S-PEDCO-11	0-IN-PY-0005 (2 OF 4)	Ind	loor	IP 54	Unclassifie	d
23											
24											
25											
26											
27											
28											
29											
30											
31									ļ		
32											
33											
34											
35											
36	L				calibration and tes	st device for SDs	1		1		NOTE 1



#### نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحتالارض

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





		DATA	SHEETS FOR F8			INAK BC MANIFO			
شماره پیمان:	پروژه	بسته کاری	صادركننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه	شماره صفحه: 18 از 21
053 - 073 - 9184	BK	W007S	PEDCO	120	IN	DT	0010	D01	y

		DATASHEET FOR	R BELL				
	1	Tag No.	See Next Page				
	2	Ambient Temprature Min / Max (°C)	-5 ~ 50 (°C)				
	3	Design Relative Humidity Min / Max (%)	0~ 100 (%)				
GENERAL	4	Atmospheric Condition	Non-Acidic, Harsh and Dusty				
GE	5	Area Classification	See Next Page				
	6	F&G Location Layout No.	See Next Page				
	7	Location of Installation	See Next Page				
	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)				
DETECTOR	17	Electrical Connection	M25 x 1.5				
DETE	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				
PURCHASE DATA	28	Manufacturer	will be finalized later				
Notes :	29	Model No.	will be finalized later				

- 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.



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

#### نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحتالارض

### ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات

برقرسانی مربوط به موقعیت  ${
m W007S}$  و توسعه چندراهه کلاستر بینک





			DATA SHEETS FOR F	G DEVICES - EXTEN	ISION OF BINA	AK BC MANIFO	OLD		l
اره پیمان:	پروژه شد	بسته کاری	صادركننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه	ı
053 - 073 - 9184	BK	W007S	PEDCO	120	IN	DT	0010	D01	ı

شماره صفحه: 19 از 21

			BELL LIS	т							
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				
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19			calibration and test device for	Bells	ı		L	NOTE 1			



#### ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات





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

شماره پیمان: بسته کاری پروژه رشته نوع مدرک سريال 053 - 073 - 9184 PEDCO D01 BK W007S 120 IN DT 0010

شماره صفحه: 20 از 21

		DATASHEET FOR SMOKE DETECTOR/HE	EAT & SMOKE DETECTOR
	1	Tag No.	See Next Page
	2	Recorded Ambient Temprature Min / Max (°C)	-2 ~ 52 (°C)
٩٢	3	Relative Humidity @ Min recorded temp. / @ Max recorded temp. (%)	13~ 92 (%)
GENERAL	4	Atmospheric Condition	Non-Acidic
B B	5	Area Classification	Zone1, IIB T4
	6	F&G Location Layout No.	See Next Page
	7	Location of Installation	See Next Page
	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	37 m²
	15	Operating Temprature	-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
DETECTOR	20	Contact Type & Rating	24 VDC, DPDT
ЕТĒ	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
HASE	36	Manufacturer	will be finalized later
PURCHASE DATA	37	Model No.	will be finalized later
	_		

#### Notes:

- VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
- Detectors shall have an inherently stable operation with built in compensation being impaired by dust, dirt or humidity.
   All circuity must be protected against electrical trasients and electromagnetic interferences.
   Faulty zone wiring shall not damage the detector.

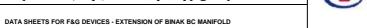
- 5. A Built in barrier shall prevent entry of insects in the sensors.
  6. Mounting Accessories, cable gland, end of line resistor are included in vendor scope of supply.
  7. Low power consumption to be considered.



#### نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحتالارض

### ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات

### برقرسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک





شماره پیمان:	پروژه	بسته کاری	صادركننده	تسهيلات	رشته	نوع مدر ک	سريال	نسخه	شماره صفحه: 21 از 21
053 - 073 – 9184	BK	W007S	PEDCO	120	IN	DT	0010	D01	21 3/21 1000 0300

			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		devices for SDs & SD/HDs to be advise by	calibration and test device for HDs			NC	DTE 1

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