



HEATPAK[®]

HEATPAK
O'BRIEN CORPORATION



O'BRIEN

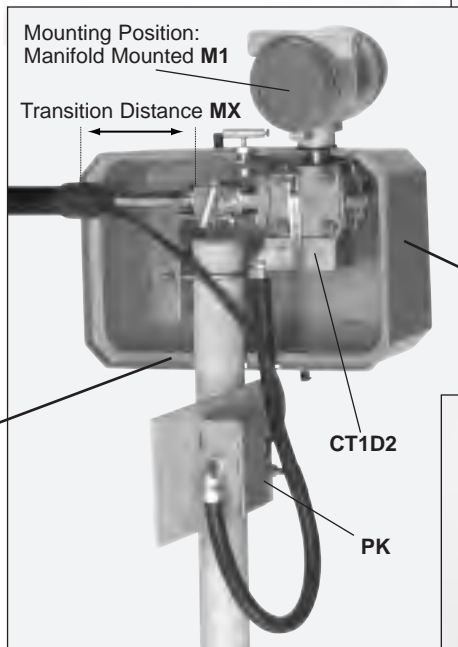
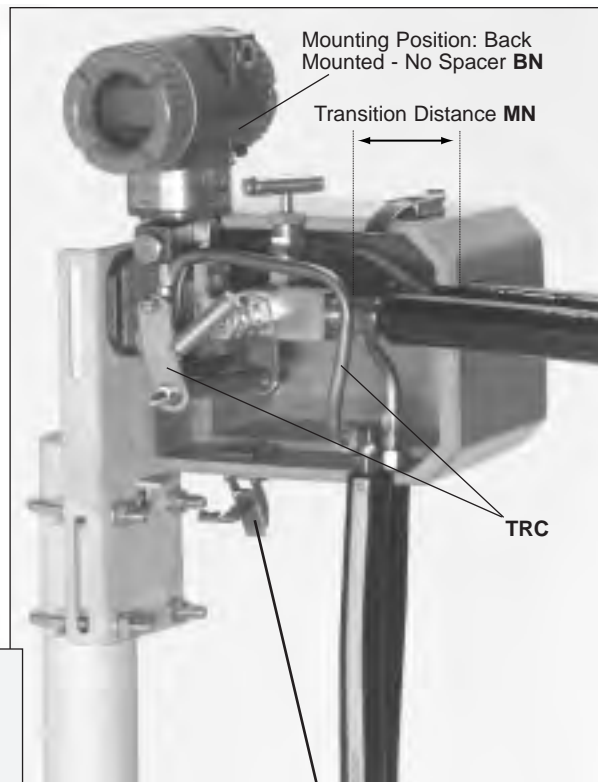
PROCESS ACCURACY THROUGH
HEAT TRANSFER EXPERTISE

INSTRUMENT FREEZE PROTECTION MADE EASY

What is HEATPAK?

HEATPAK is an enclosure system that provides freeze protection and high pour point temperature maintenance for the process wetted portions of transmitter installations.

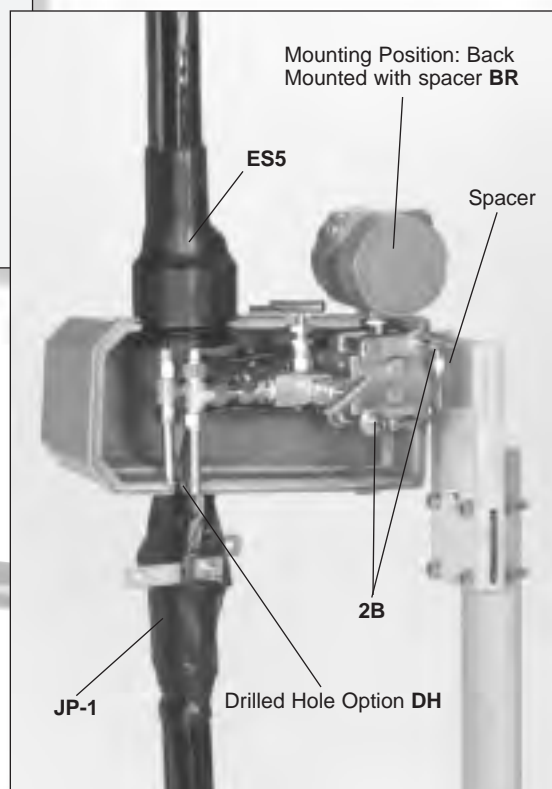
- Freeze protection or temperature maintenance
- Retrofit for existing applications
- Engineered system for new installations
- Low-cost alternative to disposable insulation
- Steam and electric heat
- Easy to install
- Low profile



Urethane insulation

Durable stainless steel latches

Rigid ABS shell



HEATPAK is easy to order

- 1 Select a transmitter
- 2 Select a manifold
- 3 Add an electric or steam heater
- 4 Choose a mounting position
- 5 Choose a transition distance
- 6 Specify any options

SELECT YOUR TRANSMITTER & MANIFOLD

Step 1

TRANSMITTERS

TRANSMITTER	CODE	STEAM STUDS
Foxboro		
13A	HPFX1	■
823DPX3	HPFX7	□
843DPX0-8	HPFX11	□
843DPX9	HPFX12	□
863DPX0-8	HPFX13	□
863DPX9	HPFX14	□
IDP10	HPFX15	□
IGP20	HPFX16	□
11AM	HPFX9	■
11GM (Side mount)	HPFX18	■
821GM (Side mount)	HPFX19	□
821DM (Side mount)	HPFX20	□
821AM (Side mount)	HPFX21	□
821AL (Side mount)	HPFX22	□
821GH (Side mount)	HPFX23	□
Rosemount		
1151AP	HPRM1	■
1151DP	HPRM2	■
1151DR	HPRM3	■
1151GP	HPRM4	■
1151HP	HPRM5	■
3051CGXX0 (Traditional flange only)	HPRM8	□
3051CDXX0 (Traditional flange only)	HPRM8	□
3051CAXX0 (Traditional flange only)	HPRM8	□
3051DP (Traditional flange only)	HPRM7	□
Honeywell		
STD120	HPHY15	□
STD130	HPHY16	□
STD170	HPHY17	□
STD624	HPHY18	□
STD924C,D,G,H,L	HPHY19	□
STD924A,B,E,F,J	HPHY20	□
STD930	HPHY21	□
STD974	HPHY22	□
STG944	HPHY23	□
STG974	HPHY24	□
STG140 (Side mount)	HPHY25	□
STG170 (Side mount)	HPHY26	□
STG180 (Side mount)	HPHY27	□
STG644 (Side mount)	HPHY28	□
STG674 (Side mount)	HPHY29	□
STA122 (Side mount)	HPHY30	□
STA140 (Side mount)	HPHY31	□
STA922 (Side mount)	HPHY32	□
STA940 (Side mount)	HPHY33	□
Yokogawa		
EJA110	HPJY11	□
EJA430	HPJY43	□

■ = Available

How to construct a model number:

- Complete steps 1 thru 6, selecting one option from each list
- Combine the model code from each list to form a complete model number.

EXAMPLE:

A Rosemount model 1151DP with Hex manifold mount model HM-131.

HPRM2-HM131

Note:

HEATPAK is available only for transmitters and manifolds listed. Consult representative or factory for custom enclosures.

Step 2

MANIFOLDS

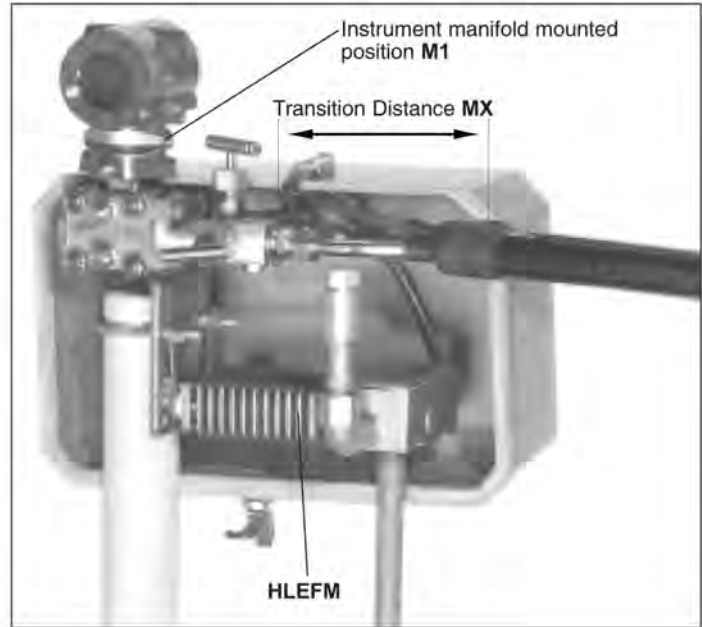
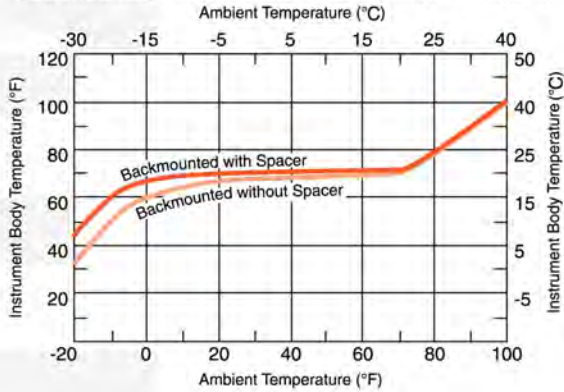
MANIFOLD	CODE	MANIFOLD MOUNTED
No Manifold	X	
Anderson Greenwood		
M3A	AG07	
M4A	AG19	
M4A-AM		AG119
M4T	AG01	
M4T-AM		AG101
M4TP	AG02	
M4TP-AM		AG102
D/A Mfg. Co.		
BY-4F	DA10	
BYK-4	DA07	
BYK-4M	DA12	
GP3T4C	DA03	DA103
GP3TC	DA03	DA103
GP3FC	DA03	DA103
GP2PTMT4C	DA02	DA102
GP2PTMTC	DA02	DA102
GP2PTMFC	DA02	DA102
GP2LLMT4C	DA01	DA101
GP2LLMTC	DA01	DA101
GP2LLMFC	DA01	DA101
MM-4B	DA06	
MM-4BF	DA11	
ZM-6	DA08	
Hex Mfg.		
HM-93	HM93	
HM-94	HM94	
HE-40	HM40	
HE-44	HM44	
HM-53	HM53	
HM-54	HM54	
HM-58	HM58	
HM-131		HM131
HM-141		HM141
HM-181		HM181
Hoke		
HO8112F8YK1		HO112
HO8122	HO22	
HO8123	HO23	
HO8128	HO28	
HO8132	HO32	
HO8138	HO38	
HO8221	HO21	
HO8231	HO31	
HO8733	HO33	
Imperial Eastman		
700BYK	IE00	IE100
714	IE14	IE114
715	IE15	IE115
716	IE16	IE116
717	IE17	IE117
724	IE24	IE124
744	IE44	IE144
745	IE45	IE145
746	IE46	IE146
754	IE54	IE154
755	IE55	IE155
756	IE56	IE156
Precision General		
M618	PG18	PG118
M650	PG60	PG160
M651	PG61	PG161
M750	PG70	PG170
M751	PG71	PG171
Oliver		
T34	OT34	OT134
Y34	OY34	OY135
Y24	OY24	OY124
Whitey		
SS-M3**FL	WH01	WH101
SS-M3**F8-FL	WH02	WH102

ADD AN ELECTRIC HEATER...

An engineered and tested system

The HEATPAK system of insulating enclosures and electric or steam heaters guarantees dependable results. Like all O'Brien systems, HEATPAK designs have been tested in our in-house environmental chamber to simulate field conditions and validate design calculations.

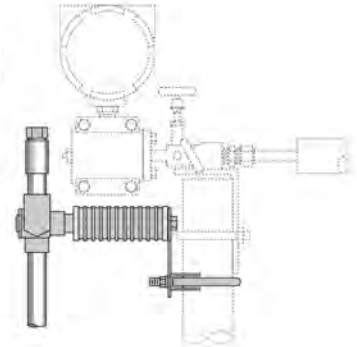
Backmounted HEATPAK with LE Heater (75°F Setpoint)



LE Heater

The heavy-duty LE heater mounts directly under the instrument or manifold to provide reliable freeze protection to -20°F (-28°C). These heaters are recommended for any hazardous area where a durable, efficient and approved heater is required.

O'Brien LE heaters are FM approved and CSA certified for Cl. I Div. 2 Gp. A,B,C,D T2D 419°F (215°C) environments. (Cl. I Div. 1 available upon request.)

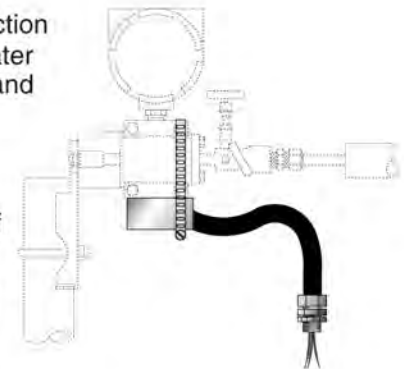


CWA Heater

For mild climates, the CW heater provides freeze protection with an internal thermostat. The explosion-proof CW heater mounts in direct contact to the instrument or manifold and includes a 30" power connection of high temperature sealtight.

The CW Heater will maintain the instrument and manifold above 40° F (5°C) in ambient temperatures of 10°F (-12°C) if the instrument is back mounted and 10°F(-12°C) if manifold mounted. The instrument body will stay below 170°F (77°C) even in ambients up to 104°F (40°C).

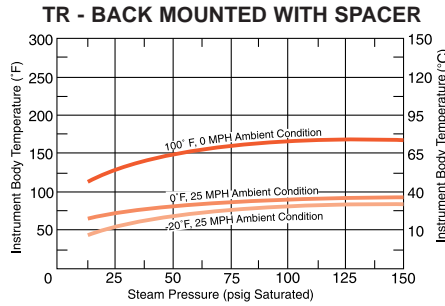
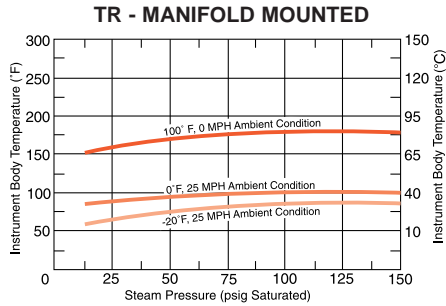
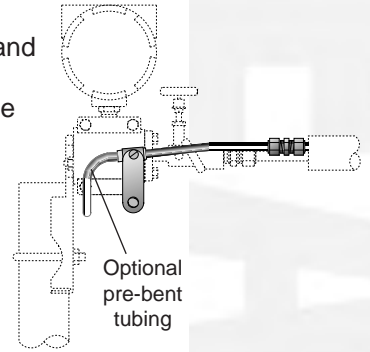
CW Heaters are CSA-US certified for Cl. I, Div. 1, Gp. A,B,C, and D areas with a T3 temperature rating.





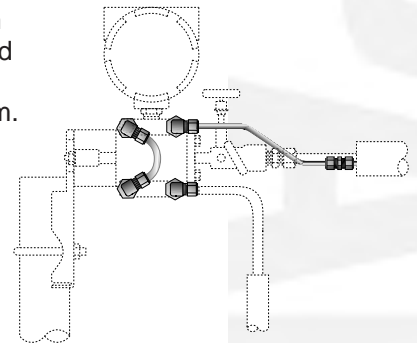
TR TUBLOK

TUBLOK provides predictable and repeatable freeze protection over a wide range of ambient temperatures and steam pressures without overheating the instrument. Installed without taking the instrument out of service, the TR TUBLOK clamps a 3/8" or 1/4" steam tracer to the instrument body, insuring predictable performance.



Steam Studs

By replacing one, two, or four body bolts with steam studs, the instrument temperature can be maintained between 90°F (32°C) and 220°F (105°C) at a 0°F (-18°C) ambient with 15 to 150 psig (2-11 bar) steam. Steam studs include 1/4" brass or optional stainless steel tube fittings and copper or stainless steel interconnecting tubing for multiple stud systems. Consult factory for performance information of steam stud systems.



Step 3

		HEATERS (Select one)	
		Description	Code
		No heat required	X
ELEC.		LE Heater - FM Cl. I, Div. 2 Gp. ABCD, T2D (See note 2)	HLEFM
		LE Heater w/PMKG-Y - FM Cl. I, Div. 2 Gp. ABCD (See note 2)	HLEFMY
		CT Heater - FM Cl. I, Div. 2, Gp. ABCD (See note 2)	CT1D2
STEAM		Thermal Resistor TUBLOK	TR
		TR TUBLOK with 3/8" .032 wall copper preformed tubing	TRC
		TR TUBLOK with 3/8" .035 wall stainless steel preformed tubing	TRS
		One steam stud - Brass fittings (See notes 1,2)	1B
		One steam stud - Stainless steel fittings (See notes 1,2)	1S
		Two steam studs - Brass fittings (See notes 1,2)	2B
		Two steam studs - Stainless steel fittings (See notes 1,2)	2S
		Four steam studs - Brass fittings (See notes 1,2)	4B
		Four steam studs - Stainless steel fittings (See notes 1,2)	4S

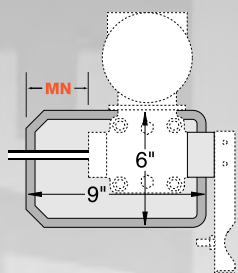
How to construct a model number:

EXAMPLE:
A Rosemount model 1151DP with Hex manifold mount model HM-131 and CT heater.
HPRM2-HM131-CT1D2

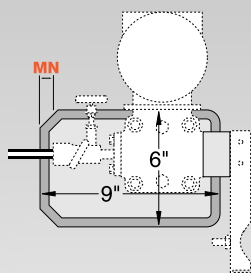
- Notes:**
1. Steam studs are only available for instruments as indicated on instrument selection list.
 2. Backmounted transmitter requires "BR" spacer when using LE or CT heaters.

CHOOSE A MOUNTING POSITION, TRANSITION DISTANCE...

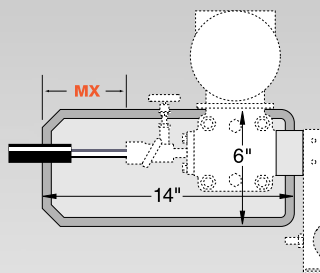
BR - Back Mounted with spacer



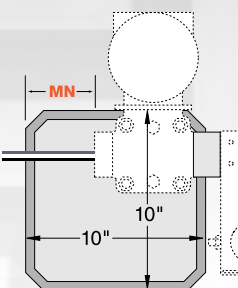
Available Heating Systems:
X, TR, Steam Studs



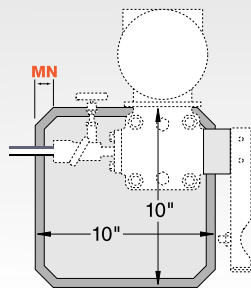
Available Heating Systems:
X, TR, Steam Studs



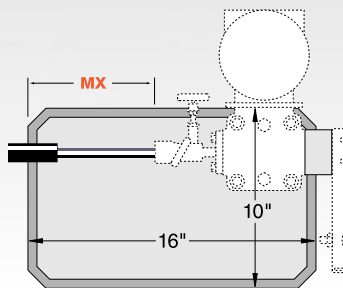
Available Heating Systems:
X, TR, Steam Studs



Available Heating Systems:
CT, LE

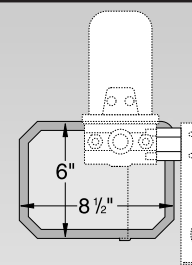


Available Heating Systems:
CT, LE

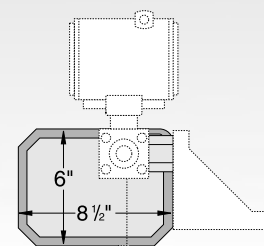


Available Heating Systems:
CT, LE

S - Side Mounted

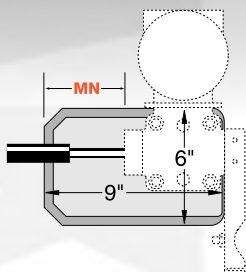


Available Heating Systems:
X, CT, LE, TR, Steam Studs

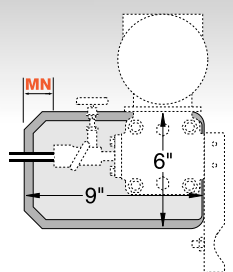


Available Heating Systems:
X, CT, LE, TR

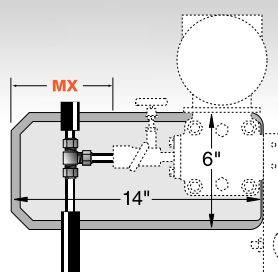
BN - Back Mounted - no spacer



Available Heating Systems:
X, TR, Steam Studs

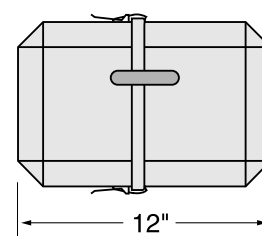


Available Heating Systems:
X, TR, Steam Studs



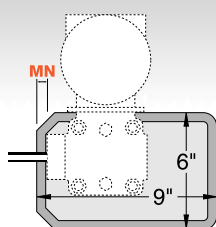
Available Heating Systems:
X, TR, Steam Studs
Non-standard process connection
Consult factory

ENCLOSURE WIDTH

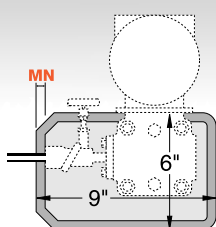


All enclosures 12" in width
unless side mounted (8 1/2")

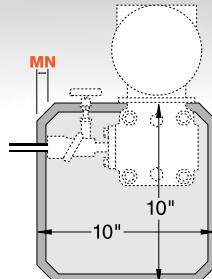
P - Process Line Supported



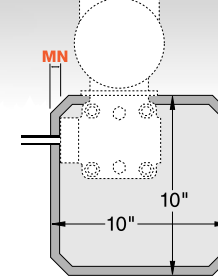
Available Heating Systems:
X, TR, Steam Studs



Available Heating Systems:
X, TR, Steam Studs



Available Heating Systems:
CT, LE

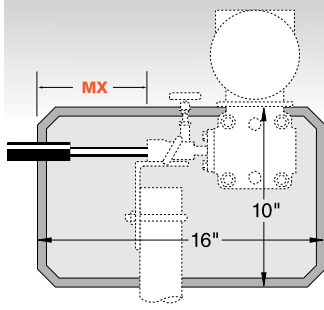


Available Heating Systems:
CT

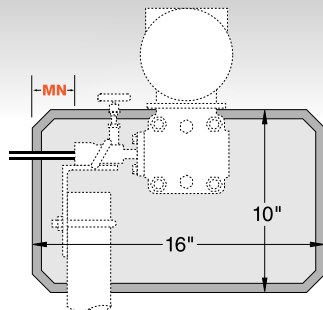
Common configurations shown - others available - consult factory

...AND ANY OPTIONS - TO COMPLETE A HEATPAK MODEL

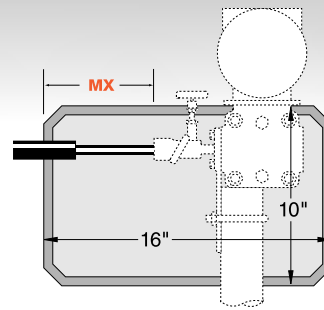
M1 - Manifold Mounted - M1 Position



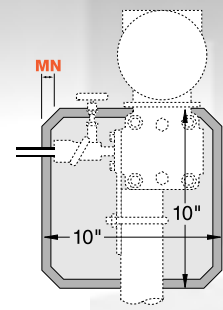
Available Heating Systems:
X, TR, CT, LE, Steam Studs



Available Heating Systems:
X, TR, CT, LE, Steam Studs

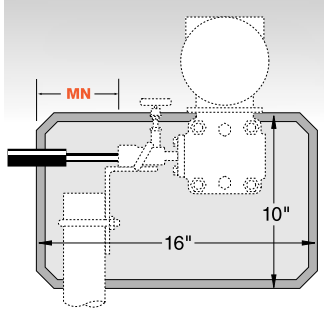


Available Heating Systems:
X, TR, CT, LE, Steam Studs

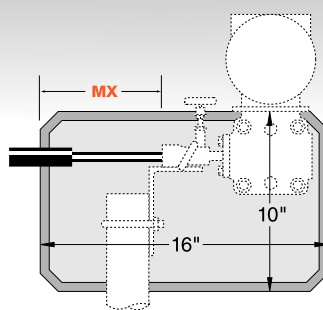


Available Heating Systems:
X, TR, CT, Steam Studs

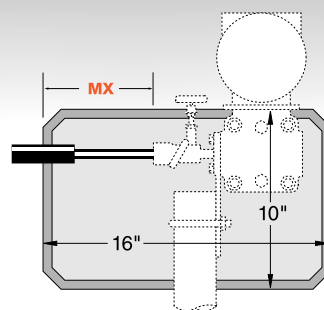
M2 - Manifold Mounted - M2 Position



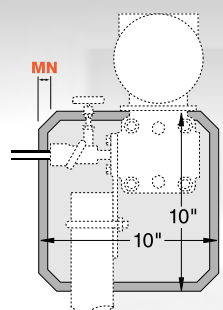
Available Heating Systems:
X, TR, CT, LE, Steam Studs



Available Heating Systems:
X, TR, CT, LE, Steam Studs



Available Heating Systems:
X, TR, CT, LE, Steam Studs



Available Heating Systems:
X, TR, CT, Steam Studs

Step 4

MOUNTING (Select one)

Description	Code
Back Mount	BN
Back Mount with spacer	BR
Manifold Mount position M1	M1
Manifold Mount position M2	M2
Supported by process connection	P
Side Mounted	S

Step 5

TRANSITION DISTANCE (Select one)

Description	Code
Minimum distance from transmitter/ manifold to process opening	MN
Maximum distance from transmitter/ manifold to process opening	MX

Completed model number:

EXAMPLE:

A Rosemount model 1151DP with Hex manifold mount model HM-131 and CT heater. Instrument is mounted on 2" pipe stand U-bolted to the back of the manifold bracket using the minimum distance from instrument to process opening. No options selected.

HPRM2-HM131-CT1D2-M1-MN-X

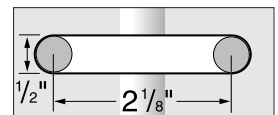
Step 6

OPTIONS (Select one or more)

Description	Code
None	X
Power kit for TRACEPAK or CT Heater	PK
Plastic Latches	PL
Entry Seal (for bundles 0.75" - 1.60")	ES4
Entry Seal (for bundles 1.43" - 2.75")	ES5
Jacket Patch Kit	JP-1
Drilled Hole (Specify size and location)	DH

Notes:

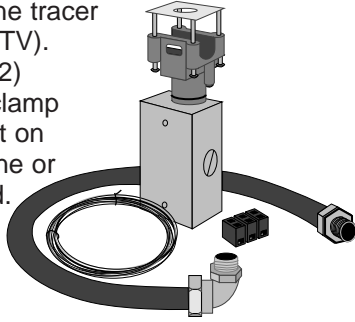
- HEATPAK is not used where the support pipe for manifold mounted transmitters is horizontal.
- Standard process opening is supplied unless otherwise specified with "DH" option.



Options

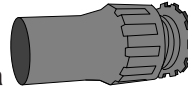
PK

External junction box power connection kit for LE or CT heater and impulse line tracer (XTV or BTV). (Cl. I Div. 2) Includes clamp to mount it on process line or pipe stand.



ES4/5

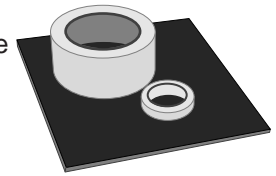
This heat-shrinkable entry seal provides a waterproof fitting where TRACEPAK enters HEATPAK. Available in two sizes, it has an O-ring and threaded jam nut for a superior seal. Includes mounting hole in standard location.



Model Number	Max. Panel Thickness	Maximum I.D. Nose	Minimum I.D. Nose	Mounting Hole Diameter
ES4	0.50"	1.60"	0.75"	2.00"
ES5	1.00"	2.75"	1.43"	3.50"

JP-1

Used to insulate and weather protect impulse line piping at transition to HEATPAK. Includes 8" x 10" self-sealing patch, thermal insulation and fiberglass tape.



Customer Service

Customer service takes on a whole new meaning at O'Brien Corporation. Our reputation as a customer-oriented problem solver has been long recognized.

O'Brien's customer-oriented approach offers these benefits:

- Responsive, knowledgeable personnel
- Quick delivery service
- Dependable, tested results of all product lines

ISO 9002 Unparalleled Quality

Certified to current ISO 9002 standards. Our adherence to recognized international quality standards provides one of the strongest assurances of product and service quality available.

Total solution

From Instrument to Process Line: Working together, we can develop installation details. Our total engineering package will reduce field installation costs and provide a dependable solution for your needs.

Process accuracy through heat transfer expertise.

TRACEPAK HEATPAK VIPAK SADDLEPAK FLEXPAK



O'Brien Corporation • 1900 Crystal Industrial Ct. • St. Louis, MO 63114
Phone 314/423-4444 • Fax 314/423-1144 • obcorp@obcorp.com • <http://www.obcorp.com>

Specifications subject to change without notice.