



**COSTLY OVERFILLS?  
FALSE TRIPS?**

**TPF OVERFILL SYSTEM  
2TPFB PROBE  
NITROGEN ACTUATED**



LOAD RACK

**PRODUCT RANGE:  
-50 °F TO 400 °F**



**RELIABLE**

TANK FARM

- FAST RESPONSE
- 5/8" ALL WELDED SS HOUSING
- WITHSTANDS UP TO 600 °F
- NO FIELD CALIBRATION
- EXPLOSION PROOF



2TPFB 06-21

4-20mA TRANSMITTER FOR AUTOMATED SYSTEMS

**313 South Wayne Avenue + Cincinnati, Ohio 45215 + 800-903-9968 + Fax: 513-761-2880**

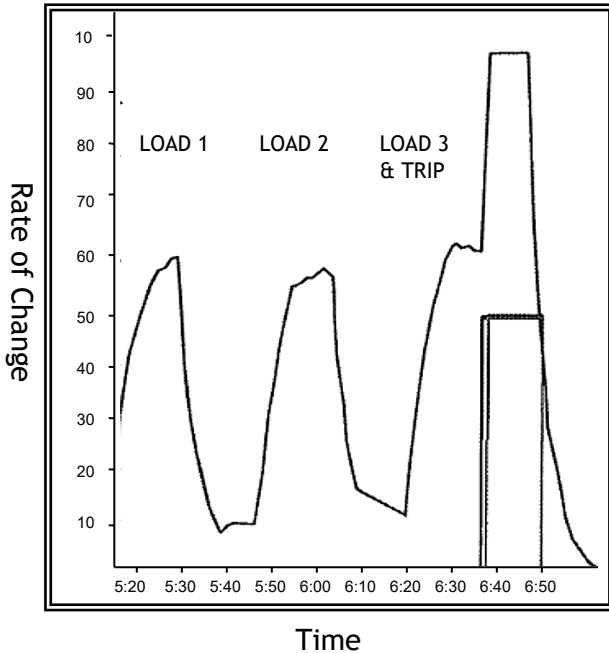
**www.tpftherm.com + tpf@tpftherm.com**

## The Logic

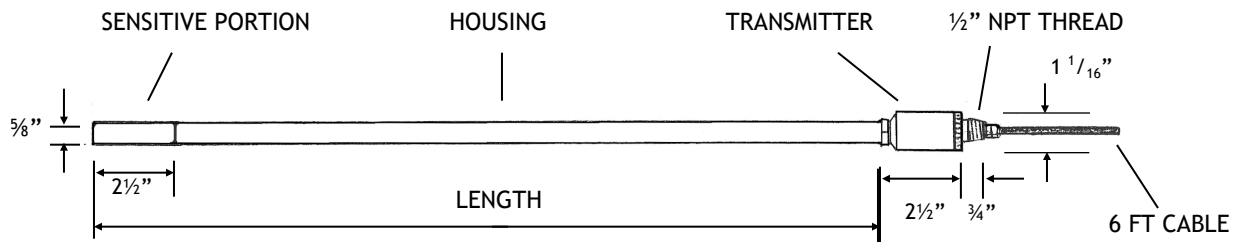
The 2TPFB probe and software uses a slope intersect technology. A trip is characterized either by a rapid change in temperature caused by contact with the probe or by reaching a preset temperature. The set of slope can be adjusted to detect an overflow condition within milliseconds, which eliminates false trips. The temperature setpoint can also be adjusted. Once the settings are established the 2TPFB is ready to go. There are no moving parts or field calibration. Switching is accomplished through the site PLC. The 2TPFB uses a 4-20mA DC loop powered signal.

The graph shows three separate loads. The first two are normal loads with no trips, and the third load shows the product being overloaded and coming into contact with the probe.

The program has been formatted in RS Logix 5000 as an AOI (add on instruction) to your PLC operating program. Setup instructions for your programmer are included. Loss of signal or over range conditions will trigger an alarm.



## Specifications:



- |  |  |   |
|--|--|---|
| <p><b>SENSITIVE PORTION</b></p> <ul style="list-style-type: none"> <li>• 5/8" diameter stainless steel bulb 2 1/2".</li> <li>• Welded into 5/8" diameter housing.</li> </ul> | <p><b>THE HOUSING</b></p> <ul style="list-style-type: none"> <li>• Constructed with a 5/8" 304 stainless steel shell encapsulating a capillary tube. 316 available.</li> </ul> | <p><b>THE TRANSMITTER</b></p> <ul style="list-style-type: none"> <li>• Requires a 12-30VDC supply and outputs a 4-20mA signal.</li> <li>• Fully welded to prevent leaks.</li> </ul> |
|--|--|---|

## How to order:

MODEL	APPLICATION	LENGTHS	PRODUCT RANGE
2TPFB	LOAD ARM TANK*	24" STD**	-50° F / 400° F

\*FOR TANK APPLICATION ADD 6" TO LENGTH OF INSERTION

\*\*LONGER LENGTHS AVAILABLE: CONSULT FACTORY



TPF, Inc. warrants all instruments manufactured and sold by it to be free from defects in material or workmanship under normal use and service. The company agrees to repair or replace any instrument which its examination reveals to have been defective, due to faulty workmanship or material, if returned to our factory, transportation charges prepaid, within one year of purchase date. All rights reserved for design and construction changes.



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