



COSTLY OVERFILLS?

FALSE TRIPS?

**TPF OVERFILL SYSTEM
4TPFB PROBE
NITROGEN ACTUATED**



LOAD RACK

PRODUCT RANGE:
-50 °F TO 600 °F

- FAST RESPONSE
- 5/8" ALL WELDED SS HOUSING
- WITHSTANDS UP TO 800 °F
- NO FIELD CALIBRATION
- EXPLOSION PROOF

4-20mA TRANSMITTER FOR AUTOMATED SYSTEMS

4TPFB 11-17

RELIABLE

TANK FARM



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

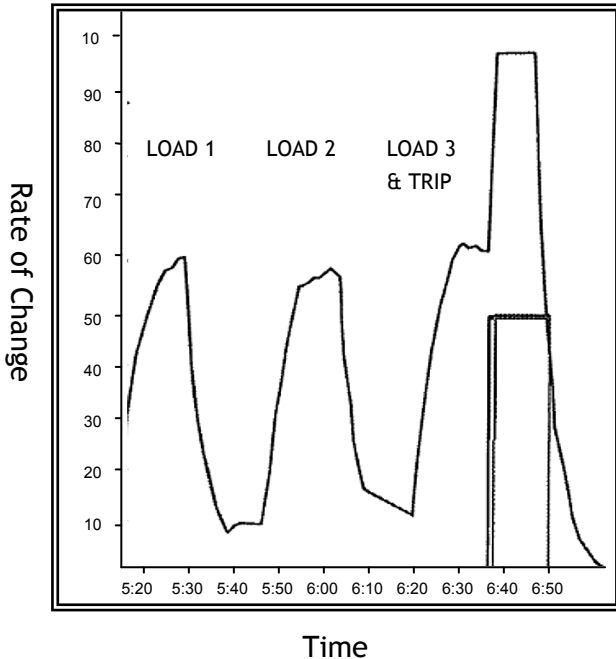
www.tpftherm.com + tpf@tpftherm.com

The Logic

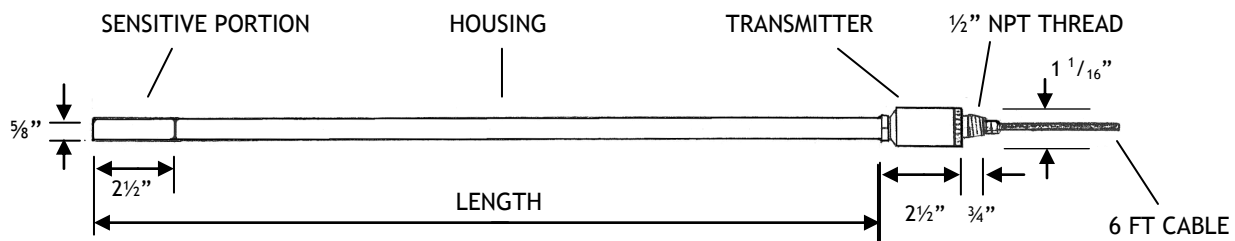
The 4TPFB probe and software uses a slope intersect technology. A trip is characterized either by a rapid change in temperature caused by contact with the probe or by reaching a preset temperature. The set of slope can be adjusted to detect an overflow condition within milliseconds, which eliminates false trips. The temperature setpoint can also be adjusted. Once the settings are established the 4TPFB is ready to go. There are no moving parts or field calibration. Switching is accomplished through the site PLC. The 4TPFB 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>SENSITIVE PORTION</p> <ul style="list-style-type: none"> • $\frac{5}{8}$" diameter stainless steel bulb $2\frac{1}{2}$". • Welded into $\frac{5}{8}$" diameter housing. | <p>THE HOUSING</p> <ul style="list-style-type: none"> • Constructed with a $\frac{5}{8}$" 304 stainless steel shell encapsulating a capillary tube. 316 available. | <p>THE TRANSMITTER</p> <ul style="list-style-type: none"> • Requires a 12-30VDC supply and outputs a 4-20mA signal. • Fully welded to prevent leaks. |
|--|---|---|

How to order:

| MODEL | APPLICATION | LENGTHS | PRODUCT RANGE |
|-------|-------------------|-----------|-----------------|
| 4TPFB | LOAD ARM TANK* | 24" STD** | -50° F / 600° 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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