



NOTICE OF PRODUCT WITHDRAWAL

Effective 04-Janurary-2021

Product: 4590 Tankside Monitor (TSM)

Manufacturer: Varec, Inc.

Overview: The 4590 TSM is being phased out to focus on newer technology.

Repairs: Please contact Varec for evaluation and possible repair upon removal of service.

Successors: The primary successor for the 4590 TSM is the 2920 FTT Tankside Display with the pipe mount bracket. Alternately, the NRF81 TSM can also be used to replace the 4590 TSM.

- For applications with the 4-wire 7500 series / Micropilot S series of radar tank gauges, the 2920 FTT can be utilized, with the use of two external I.S. Active Barriers. Please contact Varec for further details.
- For hydrostatic or hybrid applications, the NRF81 TSM must be utilized.

4590 TSM (Legacy Model)	2920 FTT Tankside Display	NRF81 TSM
<p>Communication Protocols:</p> <ul style="list-style-type: none"> • ENRAF BPM, non-I.S. 4-20mA input, non-I.S. 4-20mA HART Master output • GPE, non-I.S. 4-20mA HART Master output • WM550, non-I.S. 4-20mA output, Whessoe protocol with dual communication • Varec Mark/Space, non-I.S. 4-20mA input, non-I.S. 4-20mA HART Master output • MODBUS, non-I.S. 4-20mA input, non I.S. 4-20mA HART Master output, EIA 485 • L&J, non-I.S. 4-20mA input, non-I.S. 4-20mA HART Master output • V1, non-I.S. 4-20mA output, non-I.S. 4-20mA HART Master output, relay output 	<p>Communication Protocols:</p> <ul style="list-style-type: none"> • Varec Mark/Space • EIA-485 MODBUS • L&J Tankway • Enraf GPU Bi-Phase Mark <p>Analog I/O:</p> <ul style="list-style-type: none"> • Non-I.S. Spot RTD input (Standard) • 1x Non I.S. 4-20 mA input –and– 2x Non-I.S 4-20mA Output <p>Digital I/O:</p> <ul style="list-style-type: none"> • 2x Non-I.S. Discrete Inputs (Standard) • 2x Additional Non-I.S. Discrete Inputs –and– 4x software-driven contact outputs (Optional) 	<p>Communication Protocols:</p> <p>Primary Output:</p> <ul style="list-style-type: none"> • Modbus RS485 • V1 • 4-20mA HART Ex d/XP, RTD input • 4-20mA HART Ex i/IS, RTD input • WM550 <p>Secondary I/O Analogue:</p> <ul style="list-style-type: none"> • Ex d/XP, 1x 4-20mA HART, 1x RTD input • Ex d/XP, 2x 4-20mA HART, 2x RTD input • Ex i/IS, 1x 4-20mA HART, 1x RTD input • Ex i/IS, 2x 4-20mA HART, 2x RTD input • 1x Ex i/IS 4-20mA HART, 2x RTD input + 1x Ex d/XP 4-20mA HART • None / Not selected

Impact of this Notice

Please consult your Varec sales manager if there are any questions with the timeline below.

31-Jan-21

- Call or last orders.

31-Mar-2021

- Last day to submit an order.

30-Jun-2021

- Final order shipments.

SPARE PARTS

30-Nov-22

- Notice of product withdrawal

31-Aug-23

- Call for last orders

Production Delivery Time

No change at this time.

	<p>HART Master Input:</p> <ul style="list-style-type: none"> • XP/Ex db HART Master –or– • XP-AIS/Ex db[ia Ga]) HART Master 	<p>Secondary I/O Digital Ex D/XP:</p> <ul style="list-style-type: none"> • 2x relay / 2x module discrete, without or with Modbus or WM550 • 4x relay / 4x module discrete, without or with Modbus or WM550 • 6x relay / 6x module discrete • Modbus RS485 • WM550 • None / Not selected
<p>Service Rating:</p> <p>IP65 (NEMA 4). FM, CA, or ATEX Ex approvals.</p>	<p>Service Rating:</p> <p>IP66 / NEMA 4. cFMus, or ATEX/IECEX Ex approvals.</p>	<p>Service Rating:</p> <p>IP66/68, NEMA Type 4x/6P cFMus, ATEX or IECEX Ex approvals.</p>
<p>Power:</p> <ul style="list-style-type: none"> • 370 mA @ 24 VDC • 200 mA @ 48 VDC • 75 mA @ 125VAC • 45 mA @ 220 VAC 	<p>Power:</p> <ul style="list-style-type: none"> • Standard: 20 to 65 VDC 0.05A • Optional: 40 to 65 / 110 / 220 – 240 VAC; 750 mW nominal, 50/60 Hz 	<p>Power:</p> <ul style="list-style-type: none"> • High voltage AC power supply: 85 to 264 VAC , 50/60 Hz, 28.8 VA • Low voltage AC power supply: 52 to 75 VAC , 50/60 Hz, 21.6 VA • Low voltage DC power supply: 19 to 64 VDC, 13.4 W
<p>Inputs/Outputs:</p> <ul style="list-style-type: none"> • I.S. Spot RTD Input • Up to 2 discrete I/O modules • I.S. 4-20 mA input • I.S. Discrete Input • Non-I.S. HART/4-20mA Input or Output 	<p>Inputs/Outputs:</p> <ul style="list-style-type: none"> • Non-I.S. Spot RTD input (Standard) • 2x Non-I.S. Discrete Inputs (Standard) • 2x Additional Non-I.S. Discrete Inputs –and– 4x software-driven contact outputs (Optional) • 1x Non I.S. 4-20 mA input –and– 2x Non-I.S 4-20mA Output • HART Master Input, XP/Ex db –or– XP-AIS/Ex db[ia Ga] 	<p>Inputs/Outputs:</p> <ul style="list-style-type: none"> • 1x/2x/3x I.S. Spot RTD Input • 1x/2x/3x Non-I.S. RTD Input • 1x/2x/3x I.S HART 4-20mA Input or Output • 1x/2x/3x Non-I.S HART 4-20mA Input or Output • 2x relay / 2x module discrete, without or with Modbus or WM550 • 4x relay / 4x module discrete, without or with Modbus or WM550 • 6x relay / 6x module discrete