



## Data Sheet UFS-803

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**TRUE ADVANCED PURGE™ - MULTI-TAP****Description**

The **UNITED Fire Systems TRUE ADVANCED PURGE™ MultiTAP with ADC™** is designed to automatically purge air from within multiple dry-pipe or preaction sprinkler systems and replace the air with 98% nitrogen from a **NITROGEN-PAC™** sprinkler corrosion inhibiting system. The system also automatically samples, analyzes, and displays the percentage of nitrogen within each of the pipes.

**Advanced Sensor Technology**

The **MultiTAP with ADC™** uses the most advanced zirconium dioxide gas sensor technology available today, overcoming many of the limitations of other sensor types. The result is stable nitrogen purity readings and long sensor life, without the need for manual intervention to adjust or calibrate device readings.

**ADC™ – Active Drift Control**

The **Multi-TAP** features **Active Drift Control**, an automatic analysis of gas sensor drift and application of correlation and gain offsets to maintain device accuracy regardless of sensor status. This analysis and drift control is routinely performed by algorithms built-in to the device control system each time the **Multi-TAP** automatically measures the nitrogen purity within the sprinkler piping. No user involvement or special reference gas is required, and no other device available today offers this active method of controlling the accuracy of the displayed nitrogen value.

**Features**

- Automatic sampling of gas from inside multiple sprinkler pipes and permanent display of nitrogen concentrations in all connected sprinkler systems.
- Automatic initial purge sequence for removal of air from multiple sprinkler system pipes and replacement with 98% nitrogen. Sequence automatically begins purge of next system when previous purge is complete.
- Easy-to-read front panel display of nitrogen concentrations for all sprinkler systems, purge status, time, and date.
- Mounts separately from associated purge vent assemblies and connects with plenum-rated tubing.
- Relay outputs for system fault remote notifications, including low nitrogen

**Benefits**

- Automatic sensing and simultaneous display of nitrogen concentration in multiple sprinkler systems using one device – eliminates installing multiple devices for hazards having multiple systems.
- Eliminates manual use of hand-held nitrogen analyzer to measure nitrogen concentration in the pipe.
- Read nitrogen value at eye level – no need to climb up to purge vent locations.
- Programmed purge sequencing for multiple systems – keeps entire purge sequence under automatic control and eliminates manual operation of ball valves to regulate purging.
- Local and remote signaling of fault conditions.
- Monitor and control from any chosen location.

**TABLE 1 – Multi-TAP Devices**

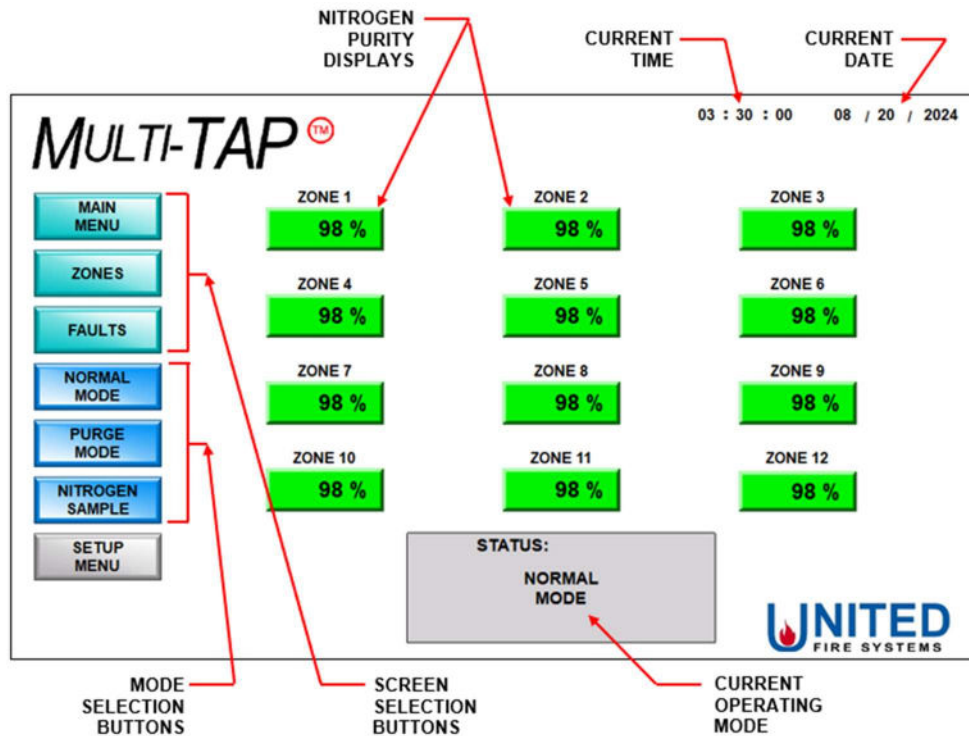
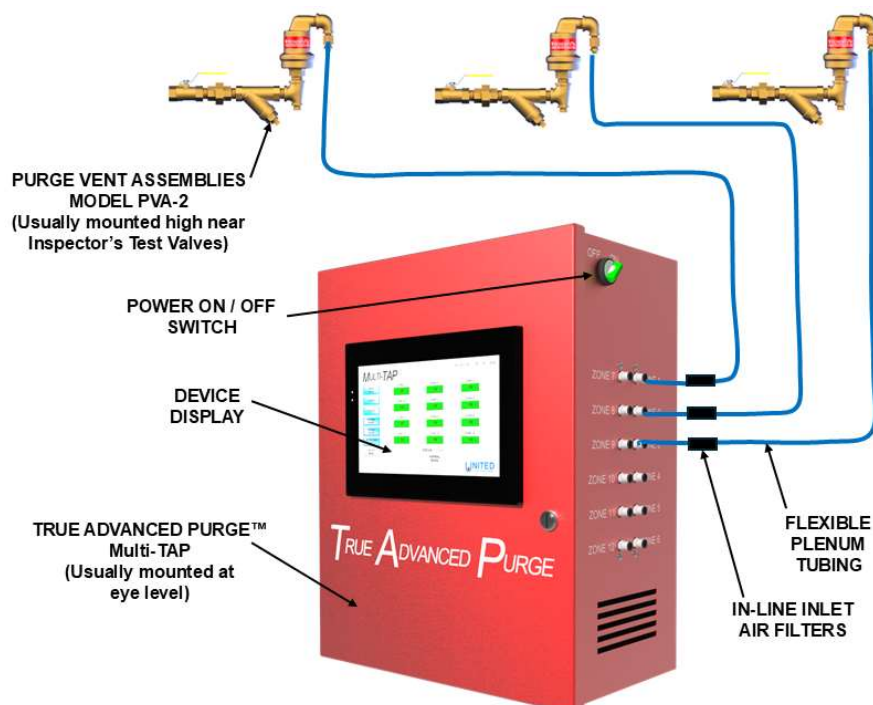
Model No.	Intended Minimum Number of Zones	Maximum Number of Zones
TAP-M03	2	3
TAP-M06	4	6
TAP-M09	7	9
TAP-M12	10	12

NOTE: Each model may be connected to a minimum of one (1) zone, allowing future expansion without upgrade or replacement.

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**TRUE ADVANCED PURGE™ - MULTI-TAP****Figure 1**  
**Device Display****Figure 2**  
**Typical Installation****UNITED Fire Systems**

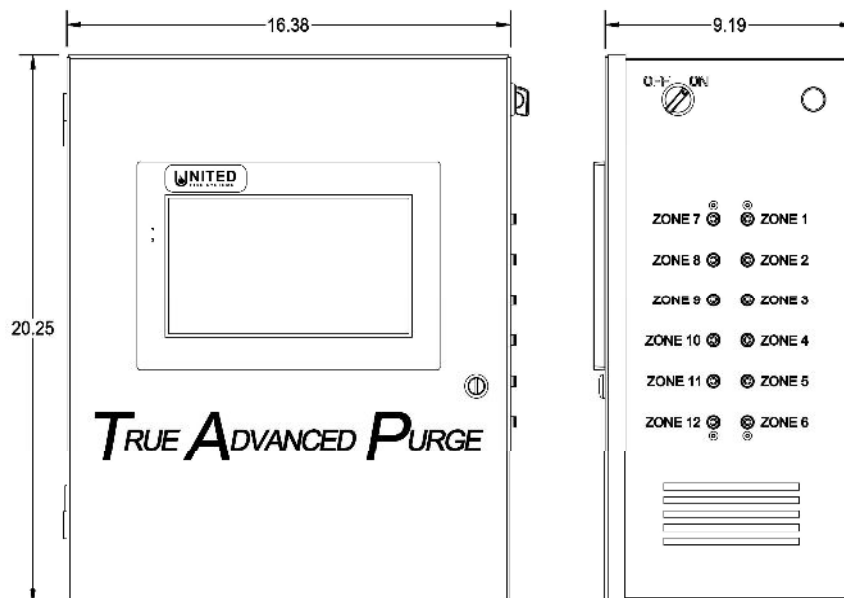
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**TRUE ADVANCED PURGE™ - MULTI-TAP****Figure 3  
Dimensions****Technical Data**

- Approximate weight = 60 pounds
- Power requirement = 115 VAC 60 Hz single phase
- Approximate power consumption = 66 W
- Accuracy =  $\pm 0.01\%$
- Resolution = 0.1%
- Predicted sensor life = 10 years
- Maximum length of tubing from PVA-2 to **Multi-TAP** (each port) = 1000 feet

**Notes**

- Install **Multi-TAP** per Figure 2. For use with any other mechanical purge vent, consult **UNITED Fire Systems**.
- Refer to Data Sheet UFS-314A for more information on **Model PVA-2** Purge Vent Assembly.

**TABLE 2 – ORDERING INFORMATION**

Model No.	Number of Inlet Ports	Number of In-Line Inlet Air Filters UFS P/N <b>30-500002-010</b>	DICOM (Design, Installation, Commissioning, Operation, and Maintenance Manual UFS P/N <b>33 MTAPG1-000</b>
TAP-M03	3	3	1
TAP-M06	6	6	1
TAP-M09	9	9	1
TAP-M12	12	12	1

Order plenum-rated connection tubing separately (UFS P/N **33-000003-XXX**, where **-XXX** refers to factory custom-cut length in feet

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