



8 Series PAP Devices

Product Specifications

- CPAP
- APAP
- BPAP
- ASV
- iVOPS

TMed 8 Series PAP Devices deliver precise, adaptable therapy with enhanced usability, supporting ASV mode and iVOPS. Featuring a larger display, real-time graphs, consumable reminders, and a stand-alone humidifier, they are easy to operate and maintain. Built with the same quiet performance and safety focus as the 7 Series, the 8 Series offers a modern design with a familiar, reliable user experience.

Therapy Modes

CPAP	Delivers fixed pressure with Decreased Exhalation Pressure (DEP) options for enhanced comfort
APAP	Automatically adjusts CPAP pressure for snoring, hypopneas, and apneas
BPAP-S	Supports independent IPAP and EPAP pressure with automatic breath detection
AUTO BPAP-S	Automatically adjusts BPAP pressure within the min. EPAP and max. IPAP limits
BPAP-T	Delivers pressure based on respiratory rate and inspiration/expiration (I:E) time ratio
BPAP-ST	Augments spontaneous breaths with a minimum time limit (Ti Min) in IPAP
ASV	Automatically adjusts IPAP within pressure support limits with constant EPAP to maintain target minute ventilation
AUTO ASV	Automatically adjusts both EPAP and IPAP within pressure support limits to maintain target minute ventilation

Main Benefits and Features

- **Foam-Free Design** - Engineered for safe breathing
- **Detachable Humidifier** - Easy-to-clean with dual short-circuit protection
- **Real-Time Graphs** - Real-time therapy data display on larger display
- **ASV** - Monitors and controls minute ventilation to stabilize breathing
- **iVOPS** - Intelligent pressure support maintains target tidal volume
- **Pressure Regulation Speed** - Rapid pressure response under 500 ms
- **Consumable Reminders** - Status and alerts for consumable replacement
- **Others** - Inherits key benefits and features from the 7 Series

iVOPS (Intelligent Volume-Oriented Pressure Support)

Supported Models	ST830, ST830M, ST830W, AU830PRO
Applicable Modes	BPAP-S, BPAP-T, BPAP-ST
Related Settings	Target Vt, Min. IPAP, Max. IPAP

Models

Model	Available Modes	Max. Pressure
CA820	CPAP, APAP	20 cmH ₂ O
BA825	CPAP, BPAP-S, AUTO BPAP-S	25 cmH ₂ O
SV825	CPAP, ASV, AUTO ASV	25 cmH ₂ O
ST830	CPAP, BPAP-S/T/ST	30 cmH ₂ O
AU830PRO	CPAP, AUTO BPAP-S, BPAP-S/T/ST, ASV, AUTO ASV, APAP	30 cmH ₂ O

Connectivity	Supported Models
4G	CA820M, BA825M, SV825M, ST830M
WiFi	CA820W, BA825W, SV825M, ST830W
Bluetooth	CA820M, BA825M, SV825M, ST830M, CA820W, BA825W, SV825W, ST830W, AU830PRO

Clinical Settings

* Remote settings - Settings that clinicians can configure remotely in the clinical portal (TMedPortal)

Parameter	Description	Options	Applicable Modes	Remote Settings*
Treatment Pressure	A fixed treatment pressure	4 - 20 cmH ₂ O	CPAP	✓
Max. Pressure	Maximum treatment pressure	Min. Pressure - 20 cmH ₂ O	APAP	✓
Min. Pressure	Minimum treatment pressure	4 - Max. Pressure	APAP	✓
IPAP	Inspiration pressure	4 - Model's Max. Pressure	BPAP-S/T/ST	✓
EPAP	Expiration pressure	ASV: 4 - 15; Others: 4 - 25 (cmH ₂ O)	BPAP-S/T/ST, ASV	✓
Respiration Rate	Respiration rate in times/min	5 - 40	BPAP-T/ST	✓
iVOPS	Sets iVOPS options	Off / On	BPAP-S/T/ST	✓
Target Vt	Sets target tidal volume	200 - 1500 ml	BPAP-S/T/ST	✓
Max. IPAP	Maximum inspiration pressure	Auto BPAP-S: 4 - 25 cmH ₂ O iVOPS: 4 - Model's Max. Pressure	AUTO BPAP-S, BPAP-S/T/ST	✓
Min. IPAP	Minimum inspiration pressure	iVOPS: 4 - Model's Max. Pressure	BPAP-S/T/ST	✓
Max. EPAP	Maximum expiration pressure	4 - 15 cmH ₂ O	AUTO ASV	✓
Min. EPAP	Minimum expiration pressure	AUTO ASV: 4 - 15 cmH ₂ O AUTO BPAP-S: 4 - 25 cmH ₂ O	AUTO ASV, AUTO BPAP-S	✓
PS	Sets pressure support	0 - 10 cmH ₂ O	AUTO BPAP-S	✓
Max. PS	Maximum pressure support	5 - 20 cmH ₂ O	ASV, AUTO ASV	✓
Min. PS	Minimum pressure support	0 - 6 cmH ₂ O	ASV, AUTO ASV	✓
Ti	Time spends in IPAP	0.1s - 4s	BPAP-T	✓
Ti Min	Minimum time spends in IPAP	0.1s - 4s	BPAP-ST	✓
Ti Max	Maximum time spends in IPAP	0.3s - 4s	BPAP-ST	✓
DEP Style	Adjusts how pressure transitions to the DEP Level; a stronger setting holds prescribed pressure longer	Soft / Standard / Strong	CPAP, APAP	✓
Cycle Sensitivity (For DEP)	Adjusts when the device switches from inhalation to exhalation based on a set percentage of peak flow	5% - 75%	CPAP, APAP	✓
Smart Pressure	If therapy restarts within 30 minutes, Smart Pressure begins at—or ramps toward—90% of the pressure when therapy stopped.	Off / On	APAP, Auto BPAP-S	-
Erase Data	Deletes all data in the SD card	-	All	-
Consumable Reminders	Sets the reminder interval for replacing the filter, air tubing, and mask	Off / 1 Month / 3 Months / 6 Months / 9 Months / 1 Year	All	-
Restore to Defaults	Resets the device, including sleep reports	-	All	-

User Settings

Parameter	Description	Options	Applicable Modes	Remote Settings*
Tube Options	Type of air tubing used	15 (Heated Tube) / 19 (Non-heated Tube)	All	✓
Mask	Type of mask used	Full Face / Nasal / Pillows	All	✓
Auto Start	Starts therapy automatically when the patient breathes into the mask	Off / On	All	✓
Auto Stop	Stops therapy automatically when the patient removes the mask	Off / On	All	✓
Ramp	Time for pressure to rise to the prescribed level gradually	Off / 5 - 45 Minutes	All	✓

Parameter	Description	Options	Applicable Modes	Remote Settings*
Start Pressure	The starting pressure of Ramp	4 cmH ₂ O - Treatment Pressure 4 cmH ₂ O - Min. Pressure 4 cmH ₂ O - Min. EPAP 2 cmH ₂ O - EPAP 2 cmH ₂ O - Min. EPAP	CPAP APAP ASV / AUTO ASV BPAP-S/T/ST AUTO BPAP-S	✓
DEP (Decreased Exhalation Pressure)	Sets when pressure relief is applied during expiration	Off / Ramp Only / Full Time	CPAP, APAP	✓
DEP Level	Amount of pressure relief applied	1 - 4 cmH ₂ O	CPAP, APAP	✓
SAP (Self-Adaptive Pressure)	Amount of dynamic pressure relief applied	Off / 1 - 3 cmH ₂ O	BPAP-S, AUTO BPAP-S	✓
Trigger Sensitivity	Sensitivity that triggers the transition from EPAP to IPAP	1 (Low) - 4 (Highest)	BPAP-S/ST, AUTO BPAP-S, ASV, AUTO ASV	✓
Cycle Sensitivity	Sensitivity that triggers the transition from IPAP to EPAP	1 (Low) - 4 (Highest)	BPAP-S/ST, AUTO BPAP-S, ASV, AUTO ASV	✓
Pressure Rise Rate	Speed of EPAP to IPAP transition	1 (Low) - 4 (Fastest)	All BPAP, ASV, AUTO ASV	✓
Pressure Drop Rate	Speed of IPAP to EPAP transition	1 (Low) - 4 (Fastest)	All BPAP, ASV, AUTO ASV	✓
Humidity Level	Sets humidity level	0 (Low) - 5 (Highest)	All	✓
Temperature Units	Sets temperature units	°C / °F	All	✓
Heated Tube	Sets heated tube temperature	Off / 16 - 30°C	All	-
Language	Sets display language	English / Français / Italiano / Tiếng Viet / Bahasa Inggeris / Español / Português / 日本語 / 简体中文 / 繁体中文	All	-
LEDs	Sets LED light	Off / On	All	-
Backlight	Sets how long the screen stays on	15s / 30s / 60s / On	All	-
Screen Saver	Displays clock when idle	Off / On	All	-
Date Setting	Sets system date	YYYY-MM-DD	All	-
Time Setting	Sets system time	24-hour time format	All	-
Timezone Setting	Sets system timezone	UTC format	All	-
Airplane Mode	Sets airplane mode	Off / On	All	-
BT Pairing	Pairs bluetooth devices	-	All	-

Alarms

Basic Alarm	Description	Options	Applicable Therapy Modes	Models
Leak Alarm	Beeps on air leak. Stops therapy after 4 alerts.	Off / On	All	All
High IPAP Alarm	Triggers when inspiratory pressure reaches or exceeds the set limit	Off / 20 - 30 cmH ₂ O	All	All
Motor Alarm	Beeps when the motor has errors	Off / On	All	All
Tube Blocked Alarm	Beeps when the tubing is blocked	Off / On	All	All
Heated Tube Overheat	Turns off heating and stops motor if heated tube temperature exceeds 43°C	-	All	All
Apnea Alarm	Beeps when Apnea duration exceeds the set time	Off / 10s / 20s / 30s	CPAP, APAP, BPAP-S/ST, AUTO BPAP-S	ST/AU Series
Low IPAP Alarm	Triggers when airway pressure falls below 5 cmH ₂ O of the set value	Off / On	BPAP only	ST/AU Series
Low Vt Alarm	Beeps when tidal volume falls below set limit	Off / 50 - 500 mL	BPAP only	ST/AU Series
Low MV Alarm	Beeps when Minute Ventilation falls below set limit	Off / 1 - 99 L/min	BPAP only	ST/AU Series
Low RR Alarm	Triggers when respiratory rate falls below set limit	Off / 1 - 40 BPM	BPAP only	ST/AU Series
High RR Alarm	Triggers when respiratory rate exceeds the set limit	Off / 1 - 40 BPM	BPAP only	ST/AU Series

Sleep Report

Remark: TMedPortal is the clinical portal for clinicians, while TMedLink+ is a therapy-tracking web app for patients.

Type	Info / Setting	TMedPortal Support	TMedLink+ Support
Period	Reporting Period: 1 Day / 1 Week / 2 Weeks / 1 Month / 3 Months / 6 Months / 1 Year	✓	
Used Hours	The daily usage time in hours	✓	✓
Usage Days	The usage days on the selected period	✓	
Days ≥ 4 Hrs	Days with usage more than 4 hours	✓	✓
Therapy Time	The total therapy time	✓	
AHI	Apnea-Hypopnea Index during the selected period	✓	✓
AI	Apnea Index during the selected period	✓	
HI	Hypopnea Index during the selected period	✓	
CSA	Central Sleep Apnea Index during the selected period	✓	
Leak	Average air leakage in L/min	✓	✓
Avg. 90% Pressure	CPAP: Average treatment pressure; APAP: Average 90% pressure; BPAP-S/T/ST: Average IPAP and EPAP; Auto BPAP-S: Average 90% IPAP and 90% EPAP	✓	

Lifetime and Warranty * 3 years for some Canadian regions

Component (Part/Model #)	Lifetime	Warranty
Main Unit	Service: 5 years	2 years*
Humidifier Base (H8)	Service: 2.5 years	90 days
Water Chamber (H8-01)	Service: 2.5 years	90 days
Non-Heated Tube (HP-T10)	Service: 6 months Shelf: 5 years	90 days
Heated Tube (WHT-100)	Service: 1 year Shelf: 3 years	90 days
Power Supply (HY72)	Service: 5 years	1 year
Air Filter (VF01)	Service: 3 months	Not Applicable

Environment Requirements

Requirements	Operating Conditions	Storage and Transport Conditions
Temperature	5~35°C	-20~55°C
Relative Humidity	20~93%	10~93% non-condensation
Atmospheric Pressure	70~106 kPa	70~106 kPa
Altitude	-400~2500 m	-400~2500 m
Others	Do not use in an environment with corrosive, flammable or explosive gases	Long-term storage of the device should be in a ventilated room without corrosive gases; Severe shock, vibration, and snow or rain splash should be avoided during transportation.

Electromagnetic Emissions

Emissions test	Compliance
RF emissions CISPR 11	Group 1, Class B
Harmonic emissions IEC 61000-3-2	Class A
Voltage fluctuations / flicker emissions IEC 61000-3-3	Compliant

Other Specifications

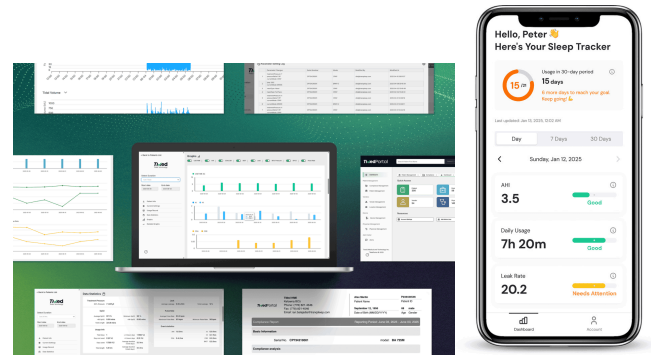
Specification	Details
IEC 60601-1 classifications	Class II, type BF
Ingress protection	IP21
Continuous work time	≥ 8 hours
Power supply	Input: AC 100-240V, 50/60Hz, 2.2A Max Output: DC 24V, 3A
Pressure measurement	±[0.8 cmH ₂ O + 4% actual pressure]
Maximum static pressure variation (ISO 80601-2-70)	≤0.5 cmH ₂ O
Tidal volume	Range: 0-2000 mL; Resolution: 1 mL Error: ±20% at 300-2000 mL Value: Average of 5 breaths in STPD
Minute ventilation	Range: 0-30 L/min; Resolution: 1 L/min Error: ±20% at 3-30 L/min Value: Average of 5 breaths in STPD
Respiratory rate	Range: 5-40 BPM ±1 BPM
Noise level	Pressure level measured according to ISO 80601-2-70 (CPAP mode): 26±3 dB(A)
Maximum gas temperature of patient connection	≤ 43°C
Temperature of heated tube	Options: OFF, 16-30°C; Error: ±2°C
Other specifications of heated tube	Length: 1.8 m ± 0.1 m Inner diameter: 15 mm Flow resistance: ≤0.06 hPa/l/min @30L/min Total compliance: ≤5 ml/hPa @60hPa
Water chamber maximum water capacity	280 ml ± 20 ml
Humidification system output	≥10 mg/L (Temperature range: 17°C -35°C; Flow range: ≤40 L/min; Humidifier setting: 5)

Air outlet	22 mm conical Compatible with ISO 5356-1:2015 Anaesthetic & Respiratory Equipment – Conical Connectors
Air filter	Efficiency ≥90% for ~5 micron dust
SD Card	Stores about two years of data
Weight (Main Unit)	1.1 kg
Dimensions (Main Unit)	16.8 (L) x 15.9 (D) x 11 (H) cm

Links & Contacts

Company Website	tmedtechnology.com
TMedPortal	portal.tmedtechnology.com
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TMedPortal & TMedLink+ Supported



TMedPortal

Clinician portal for remote therapy adjustments, report downloads, and detailed data graphs with oximetry.

TMedLink+

Patient web app for tracking therapy adherence and outcome.

