







WTW Measuring Systems for Nitrogen

● recommended by WTW ◐ suitable ○ conditionally applicable

*Measurement in aeration basin

System	Ammonium		Ammonium and Nitrate	Nitrate		
	NEW		NEW	NEW		
Sensor/Module	 IQ SENSOR NET AmmoLyt® Plus 700 IQ	 TresCon® Module OA 110	 IQ SENSOR NET VARION® Plus 700 IQ	 IQ SENSOR NET NitraLyt® Plus 700 IQ	 TresCon® Module ON 210/OS 210	 IQ SENSOR NET NitraVis® 700 IQ
		<i>for mounting in TresCor® system</i>			<i>for mounting in TresCor® system</i>	
Measured Variable	NH ₄	NH ₄	NH ₄ and NO ₃	NO ₃	NO _x	NO ₃
Inlet (determination of load)	◐	○	◐	◐	○	●
Aeration (regulation and control)	●	●	●	●	●	●
Effluent (monitoring)	○	●	○	○	●	●
Autom. Cleaning	compressed air	cleaning solution	compressed air	compressed air	cleaning solution	compressed air
Cleaning Cycles	variable	automatic 6/12/24 h	variable	variable	automatic 6/12/24 h	prior to each measurement
Measuring	in-situ	after sample preparation*	in-situ	in-situ	after sample preparation*	in-situ
Sample Preparation	none	PurCon®/PurCon® Insitu*	none	none	PurCon®/PurCon® Insitu*	none
Measuring Interval	continuous	adjustable	continuous	continuous	adjustable	adjustable
Response Time	quick	medium	quick	quick	medium	quick
Measuring Method	ISE (ion-selective)	gas-sensitive	ISE (ion-selective)	ISE (ion-selective)	photometric	UV/VIS spectrometric
Accuracy	good	high	good	good	high	high
Cross Sensitivity	yes/potassium, compensable	none	yes, automatic compensation	yes/chloride, compensable	low	autom. compensated (spectrum)
Calibration	factory calibration	automatic 6/12/24 h	factory calibration	factory calibration	automatic 6/12/24 h	not necessary
Investment Costs	low	medium	low	low	medium	medium
Additional Costs	—	sample preparation/pump may be required	—	—	sample preparation/pump may be required	—
Operational Costs	low	medium	low	low	low	none
Consumables	electrodes	calibration standard/reagent cleaning solution/E pack	electrodes	electrodes	calibration standard cleaning solution/E pack	none