

WTW Measuring Systems for Nitrogen		*Measurement in aeration basin	
● recommended by WTW ○ suitable ○ conditionally applicable		Ammonium	Nitrate
System	Ammonium and Nitrate	Ammonium	Nitrate
		 NEW	 NEW
Sensor/Module	IQ SENSOR NET AmmoLyt® Plus 700 IQ TresCon® Module OA 110 <i>for mounting in TresCor® system</i>	IQ SENSOR NET VARIO® Plus 700 IQ TresCon® Module OA 110 <i>for mounting in TresCor® system</i>	IQ SENSOR NET NitraLyt® Plus 700 IQ TresCon® Module ON 210/OS 210 <i>for mounting in TresCor® system</i>
Measured Variable	NH ₄	NH ₄ and NO ₃	NO ₃
Inlet (determination of load)	●	●	○
Aeration (regulation and control)	●	●	●
Effluent (monitoring)	○	○	○
Autom. Cleaning	compressed air	compressed air	compressed air
Cleaning Cycles	variable	variable	variable
Measuring	in-situ	in-situ	in-situ
Sample Preparation	none	none	none
Measuring Interval	continuous	continuous	continuous
Response Time	quick	quick	quick
Measuring Method	ISE (ion-selective)	ISE (ion-selective)	ISE (ion-selective)
Accuracy	good	good	good
Cross Sensitivity	yes/potassium, compensable	yes, automatic compensation	yes/chloride, compensable
Calibration	factory calibration	factory calibration	factory calibration
Investment Costs	low	low	low
Additional Costs	—	—	—
Operational Costs	low	low	low
Consumables	electrodes	electrodes	electrodes
	compressed air	compressed air	compressed air
	variable	variable	variable
	in-situ	in-situ	in-situ
	none	none	none
	continuous	continuous	continuous
	quick	quick	quick
	ISE (ion-selective)	ISE (ion-selective)	ISE (ion-selective)
	good	good	good
	yes/potassium, compensable	yes, automatic compensation	yes/chloride, compensable
	factory calibration	factory calibration	factory calibration
	low	low	low
	—	—	—
	low	low	low
	electrodes	electrodes	electrodes
	cleaning solution	cleaning solution	cleaning solution
	automatic 6/12/24 h	automatic 6/12/24 h	automatic 6/12/24 h
	after sample preparation*	after sample preparation*	after sample preparation*
	PurCon®/PurCon® Insitu*	PurCon®/PurCon® Insitu*	PurCon®/PurCon® Insitu*
	adjustable	adjustable	adjustable
	medium	medium	medium
	gas-sensitive	gas-sensitive	photometric
	high	high	high
	none	none	low
	automatic 6/12/24 h	automatic 6/12/24 h	automatic 6/12/24 h
	medium	medium	medium
	sample preparation/pump may be required	sample preparation/pump may be required	sample preparation/pump may be required
	medium	medium	medium
	calibration standard/reagent cleaning solution/E pack	calibration standard/reagent cleaning solution/E pack	calibration standard cleaning solution/E pack