

ADVANCE™ MONITOR

N/C METER

Improves control of the urea synthesis process and reaches its highest reactor efficiency by accurately and continuously measuring the N/C ratio



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The N/C Meter

The N/C Meter helps control the N/C ratio of your urea plant more accurately whilst guiding it to its optimal performance. This leads to a more stable operation of the synthesis process and in doing so, a more stable operation of the whole plant. At the same time you can markedly increase your plant's capacity increase your plant's capacity and significantly lower the steam and ammonia consumption.

Why the ADVANCE MONITOR™ N/C Meter?

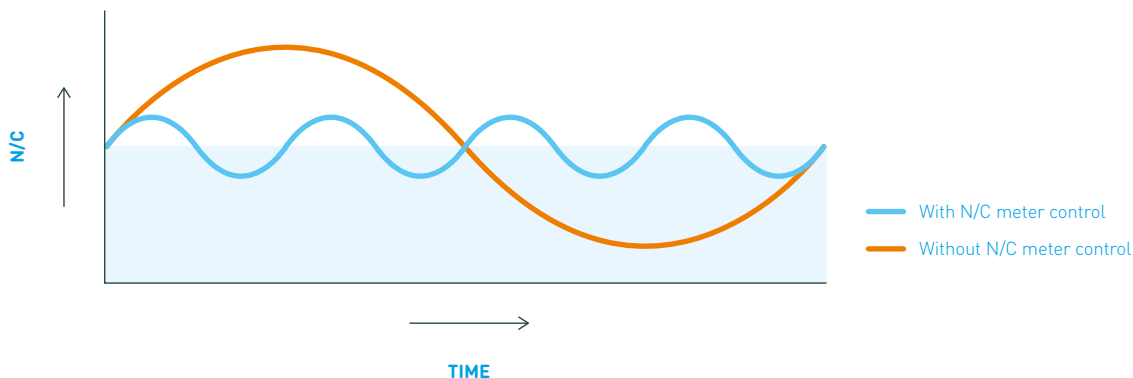
- Markedly increased plant capacity
- Economically beneficial - saving on energy and laboratory analysis costs
- Lower ammonia consumption
- More stable production
- Noticeably safer when compared to taking manual samples

The ADVANCE MONITOR™ N/C Meter has the following features:

- Accurate and continuous measurement of the N/C ratio
- Highly reliable and solid industrial design
- The system is designed to control stable temperature and pressure designed to control stable measuring conditions continuously and to prevent carbamate from solidifying
- Immediate indication of any undesirable conditions
- Limited maintenance required



A typical oscillation of the N/C ratio in the reactor



The phenomenon of an oscillating N/C ratio has been observed in many plants and is predominately a consequence of the ambient temperature changes over day and night, although other influences can influence the N/C ratio as well. When using the ADVANCE™ MONITORING N/C Meter, the variance of the N/C ratio will be reduced.

By narrowing down the variations of the N/C ratio in the reactor, Stamicarbon has experienced approximately 2% reduction in steam consumption, approx. 60% in reduction of ammonia losses and up to 4% increase in urea production output.





