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
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 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
The phenomenon of an oscillating N/C ratio has been observed in many plants and is predominantly 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.