

comstron corporation

200 East Sunrise Highway, Freeport, New York 11520
(516)546-9700 TWX 510-225-3699

RHEDE TECNOLOGIA S/A.

CERTIFICATE OF CONFORMANCE

July 20, 1984

· Alex Castillo
· 1003 Joselson Ave
· Bayshore, NY 11704

Attn: S.O. L12391-074
Receiving Inspection
Purchase Order No. Verbal
Seller's Invoice No. 29684

Seller Certifies that:

The materials, parts, and/or equipment as indicated in the invoice number referenced herein, have been produced and/or supplied in conformance with all contractual applicable Government and/or Buyers' specifications as they existed at the time when said purchase order or contract was placed, or as modified by formal contract and/or purchase order change.

Description of Material

1	FA-1446	Line Simulator	S/N 399
1	FA-1447	Line Simulator	S/N 497

Seller: COMSTRON CORPORATION

By :

Title: Manager, Quality Control



comstron corporation

200 East Sunrise Highway, Freeport, New York 11520

TEST REPORT

DATE: _____

SERIAL# 497

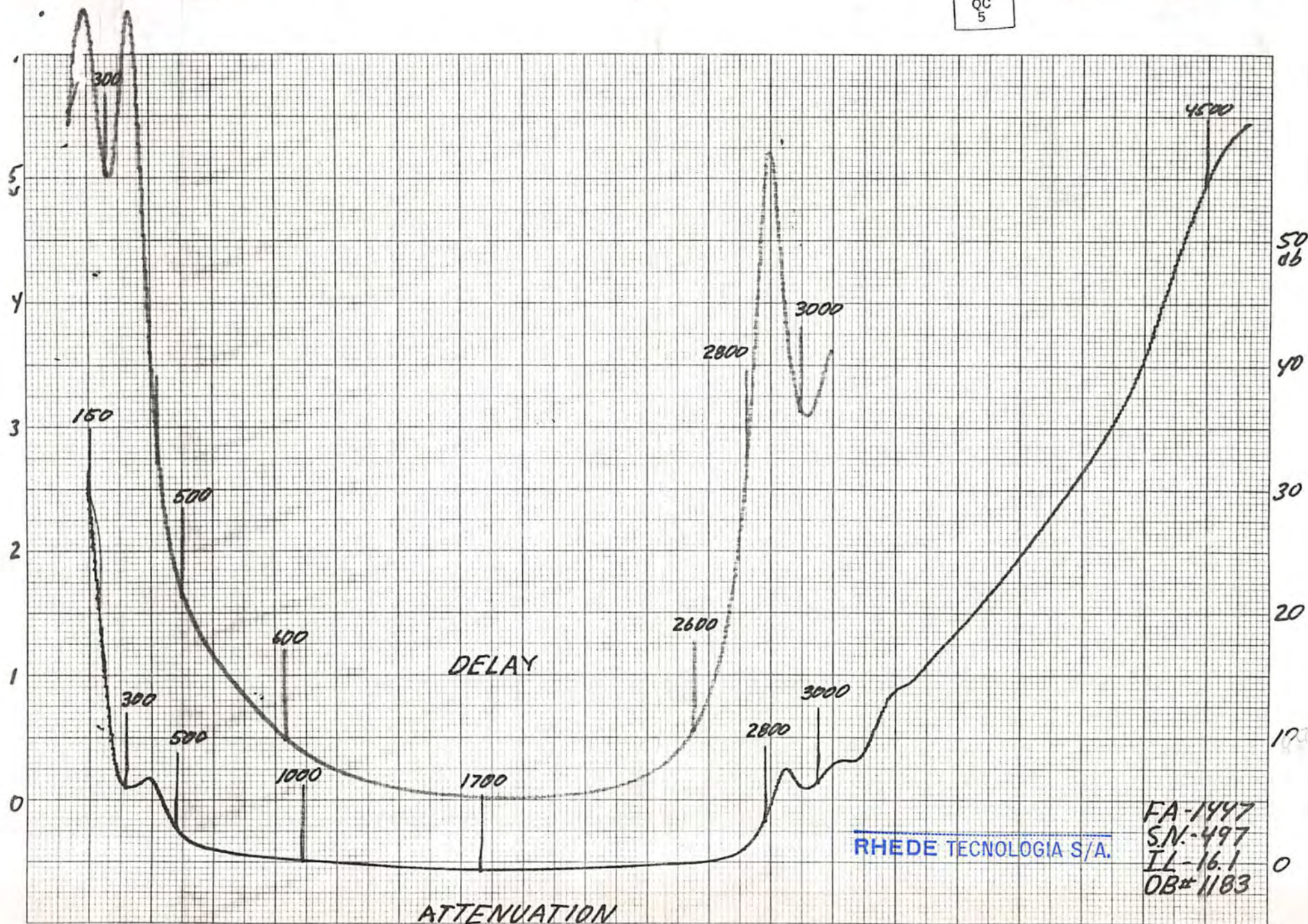
TELEPHONE LINE SIMULATOR

MODEL FA - 1447

LOT# _____



Attenuation (DB) Ref 1000 Hz			Delay (us). Ref. 1700 Hz		
Frequency (Hz)	Specified	Measured	Specified	Measured	Tester
0-150	+24 (Min.)	29			
300	+6 + .6	5.9	3000 (Min.)	5200	
500	+3 + .5	2.6	3000 + 300	2700	
600			1500 +150	1600	
1000	0	0	500 + 50	490	
1700	-1 (Max.)	- .79			
2600			500 + 50	550	
2800	+3 + .5	3.2	3000 +300	2900	
3000	+6 +.6	6.2	3000 (Min.)	3200	
4500	+50 (Min.)	≥ 50			
	Insertion Loss (DB)		Impedance (Ohms)		
1000	16 +1	16.1	600 +60	600	



RHEDE TECNOLOGIA S/A.

FA-1947
S.N.-497
IL-16.1
OB# 1183

Model # FA-1446Serial # 399

RHEDE TECNOLOGIA S/A.

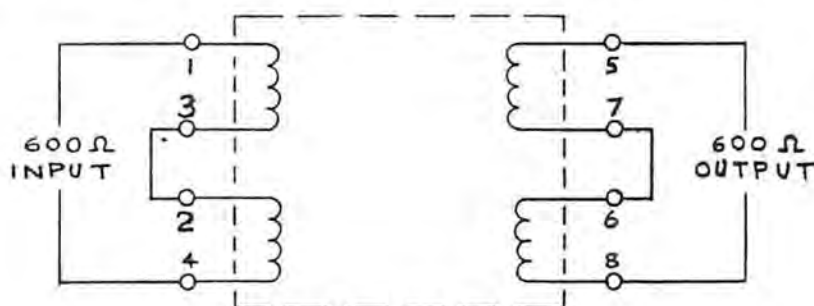
Operation of SEG Telephone Data Line Simulators

SEG Telephone Data Line Simulators are precision, passive, networks which simulate the nominal worst case characteristics of their specified schedule.

Each Simulator is supplied with a set of curves showing the attenuation and group delay characteristics as measured with a Wandel and Goltermann LDS test set. Every precaution is taken to ensure that the Simulator you receive is stable, noise-free, and within the tolerances set forth in the accompanying test report. It is for these reasons that the SEG SIMULINETM system has become "a standard of the industry".

The Simulator is placed in operation as follows:

The input and output are split transformer coupled as shown



Hook up for 600 ohm "Normal" operation

thus providing impedance matching capability from 150 ohm to 600 ohm or operation as a 600 ohm device. Normally the Simulators are used as a 600 ohm device and are thus placed in operation by strapping pin 2 to pin 3 and strapping pin 6 to pin 7 while utilizing pins 1 and 4 as input and 5 and 8 as output respectively.

COMSTRON

Model # FA-1447Serial # 4917RHEDE TECNOLOGIA S/A.

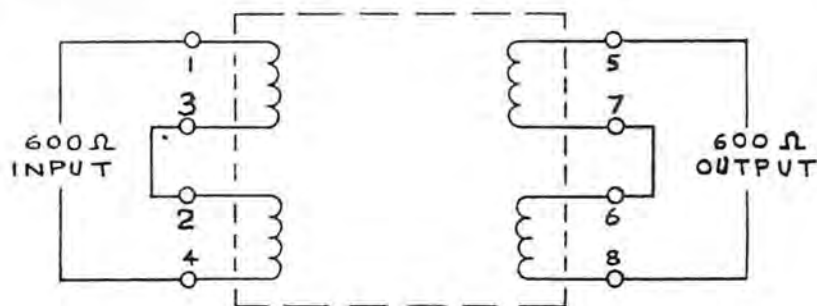
Operation of SEG Telephone Data Line Simulators

SEG Telephone Data Line Simulators are precision, passive, networks which simulate the nominal worst case characteristics of their specified schedule.

Each Simulator is supplied with a set of curves showing the attenuation and group delay characteristics as measured with a Wandel and Goltermann LDS test set. Every precaution is taken to ensure that the Simulator you receive is stable, noise-free, and within the tolerances set forth in the accompanying test report. It is for these reasons that the SEG SIMULINETM system has become "a standard of the industry".

The Simulator is placed in operation as follows:

The input and output are split transformer coupled as shown



Hook up for 600 ohm "Normal" operation

thus providing impedance matching capability from 150 ohm to 600 ohm or operation as a 600 ohm device. Normally the Simulators are used as a 600 ohm device and are thus placed in operation by strapping pin 2 to pin 3 and strapping pin 6 to pin 7 while utilizing pins 1 and 4 as input and 5 and 8 as output respectively.

COMSTRON



comstron corporation

200 East Sunrise Highway, Freeport, New York 11520

RHEDE TECNOLOGIA S/A.

TEST REPORT

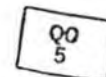
DATE: _____

SERIAL# 399

TELEPHONE LINE SIMULATOR

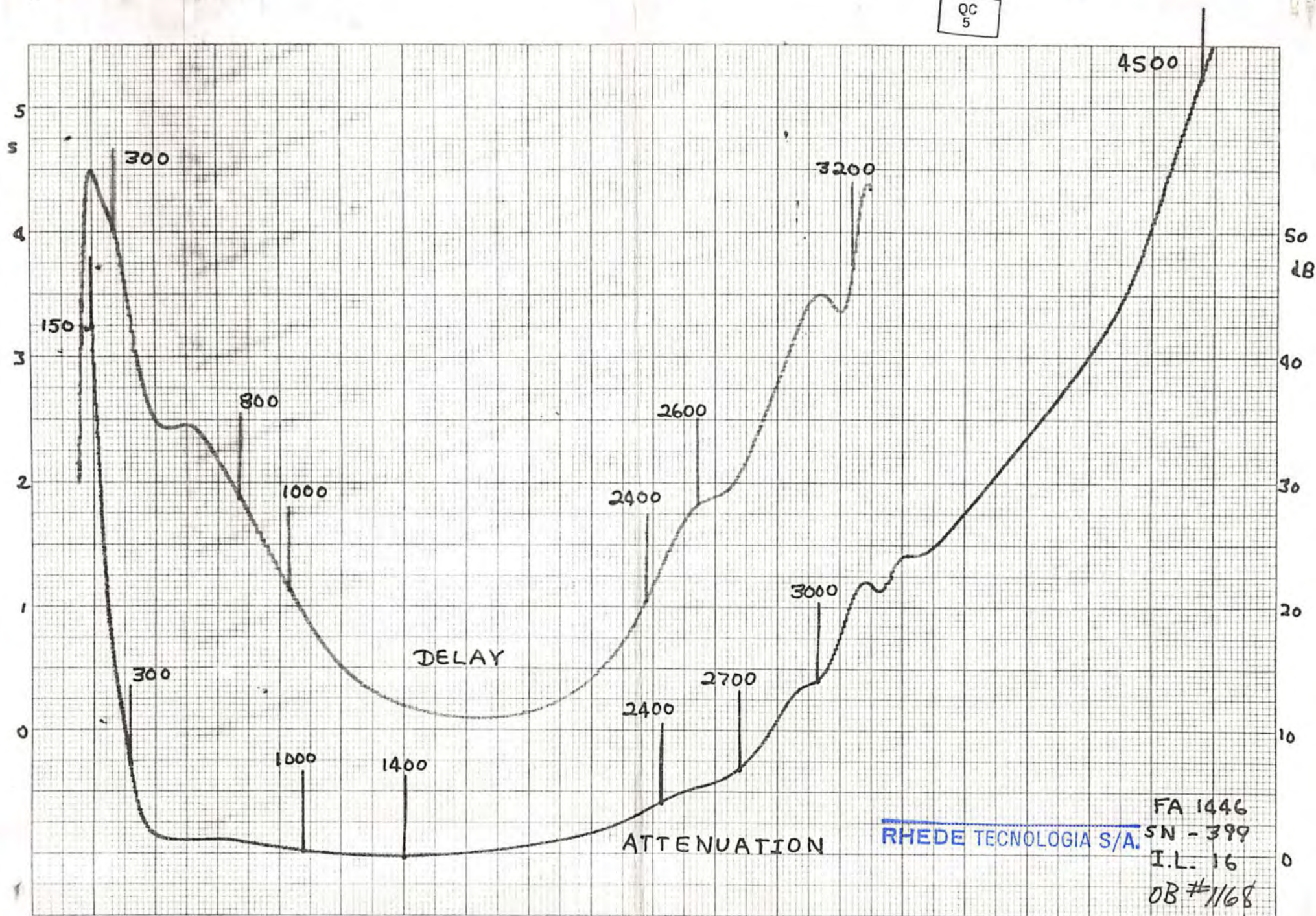
MODEL FA - 1446

LOT# _____



Attenuation (DB) Ref. 1000 HZ			Delay (us) Ref. 1700 HZ		
Frequency (Hz)	Specified	Measured	Specified	Measured	Tester
0 - 150	+24 (Min.)	35			COMSTRON T17
300	+6 $\pm$.6	6	3000 (Min.)	4000	
800			1750 $\pm$ 175	1820	
1000	0	0	1000 $\pm$ 100	1080	
1400	-1 (Max.)	- .4			
2400	+3 $\pm$.5	3.25	1000 $\pm$ 100	1000	
2600			1750 $\pm$ 175	1775	
2700	+6 $\pm$.6	5.6			
3000	+12 $\pm$ 1.2	11.6			
3200			3000 (Min.)	3750	
4500	+50 (Min.)	> 50			
	Insertion Loss (DB)		Impedance (Ohms)		
1000 (Ref)	16 $\pm$ 1	16	600 $\pm$ 60	600	

QC
5



RHEDE TECNOLOGIA S/A.

FA 1446

SN - 399

I.L. 16

OB #1168

CONSTRON
T17